Mines and Minerals Division

Ontario Geological Survey
Mineral Deposits Circular 26

Industrial Minerals of Northern Ontario

by
M.A. Vos, Tanya Abolins, R.L.W. McKnight, and Violet Smith

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Foreword

In recent years, the industrial minerals have increasingly attracted the attention of the private sector in Ontario. As part of a program of Northern Industrial Mineral Studies (NIMS), an inventory of industrial mineral deposits was undertaken. This report is a catalogue of information compiled from the literature and recorded systematically according to geographic location. The information is intended to assist in the search for suitable industrial mineral targets for exploration and development in northern Ontario.

V.G. Milne
Director
Ontario Geological Survey

Contents

Abstract 2
Introduction 3
- Acknowledgments 4
- Sources of Information 4
- Scope and Methodology 4
- Divergent Entries 6
- Report Format 8

NTS 31M Part of Ville Marie Sheet 9
- Arsenic 9
- Asbestos 9
- Calcite 9
- Cerium 9
- Cobalt 10
- Erythrite 10
- Lanthanum 10
- Lime 10
- Pyrite 10
- Quartz 11
- Silica 11
- Stone 11

NTS 32D Part of Noranda-Rouyn Sheet 13
- Asbestos 13
- Barite 14
- Bismuth 14
- Chromite 14
- Graphite 14
- Magnetite 15
- Pyrite 15

NTS 32E Part of Upper Harricanaw River Sheet 16
- Graphite 16
- Lithium 16
- Magnetite 16
- Pyrite 16

NTS 41I Part of Sudbury Sheet 18
- Anthraxolite 18
- Bismuth 18
- Cobalt 18
- Fluorite 22
- Iridium 22
- Magnetite 26
- Quartz 26
- Selenium 26
- Silica 31
- Stone 31
- Sulphur 32
- Talc 35
- Tellurium 35
- Trap Rock 38
- Vermiculite 39

NTS 41J Blind River Sheet 40
- Apatite 40
- Asbestos 40
- Barite 40
- Bismuth 40
- Cerium 41
- Cobalt 41
- Hematite 41
- Lanthanum 42
- Limonite 43
- Magnetite 43
- Niobium 43
- Silica 43
- Titanium 43
- Trap Rock 44

NTS 41K Sault Ste Marie Sheet 45
Clay 45
Hematite 45
Kaolinite 46
Manganese 46
Silica 46
NTS 41N Michipicoten Sheet 48
Hematite 48
Magnetite 48
Manganese 49
Niobium 49
Powellite 49
Pyrite 49
NTS 41O Chapleau Sheet 50
Apatite 50
Asbestos 50
Bismuth 50
Chromite 50
Graphite 50
Hematite 54
Magnetite 54
Niobium 55
Pyrite 55
Thorium 57
NTS 41P Gogama Sheet 58
Asbestos 58
Barite 59
Bismuth 60
Calcite 61
Cobalt 62
Graphite 62
Hematite 63
Magnetite 63
Pyrite 63
Talc 64
Tin 64
NTS 42A Timmins Sheet 65
Asbestos 65
Barite 73
Bismuth 73
Chromite 74
Fluorite 74
Graphite 74
Hematite 78
Magnesite 79
Magnesium 79
Magnetite 79
Marl 81
Nepheline 81
Pyrite 81
Serpentine 87
Talc 87
Tellurium 88
Tin 88
Tourmaline 88
NTS 42B Foleyet Sheet 90
Arsenic 90
Asbestos 90
Barite 92
Graphite 92
Magnetite 97
Niobium 98
Pyrite 98
Silica 101
Talc 101
Titanium 101

NTS 42C White River Sheet 103
Arsenic 103
Asbestos 103
Beryl 104
Lithium 104
Magnetite 104
Nepheline 105
Talc 105
Titanium 105
NTS 42D Schreiber Sheet 106
Amethyst 106
Asbestos 106
Barite 106
Cerium 106
Clay 106
Fluorite 107
Magnetite 107
Nepheline 108
Niobium 108
Stone 108
Thorium 109
Titanium 109
NTS 42E Longlac Sheet 110
Amethyst 110
Beryllium 110
Graphite 110
Lithium 110
Niobium 115
NTS 42F Hornepayne Sheet 116
Pyrite 116
NTS 42G Kapuskasing Sheet 117
Apatite 117
Lithium 117
Magnetite 117
Phosphate 118
Vermiculite 118
NTS 42I Moose River Sheet 119
Gypsum 119
Lime 119
Magnetite 119
Niobium 119
NTS 42J Smoky Falls Sheet 121
Apatite 121
Clay 121
Kaolin 122
Lignite 122
Magnetite 122
Niobium 122
Phosphate 122
Silica 123
NTS 42L Nakina Sheet 124
Asbestos 124
Beryl 124
Cobalt 124
Graphite 124
Lithium 125
Marl 125
Pyrite 126
NTS 42M Fort Hope Sheet 128
Pyrite 128
NTS 42P Moosonee Sheet 129
Gypsum 129
NTS 43D Lansdowne House Sheet 130
Pyrite 130

NTS 43K Sutton Lake Sheet 131
Pyrite 131
NTS 43L Clendenning River Sheet 132
Pyrite 132
NTS 52A Thunder Bay Sheet 133
Agate 133
Amethyst 133
Arsenic 136
Asbestos 136
Barite 136
Beryl 139
Calcite 139
Chromite 140
Clay 141
Cobaltite 141
Feldspar 141
Hematite 142
Magnetite 142
Marl 142
Peat 142
Pyrite 143
Selenium 143
Shale 143
Stone 144
NTS 52B Quetico Sheet 145
Bauxite 145
Beryl 145
Chromite 146
Cobalt 146
Fluorspar 147
Garnet 147
Goethite 147
Graphite 147
Hematite 148
Lithium 148
Magnetite 149
Peat 149
Pyrite 150
Soapstone 151
Talc 151
NTS 52C International Falls Sheet 153
Apatite 153
Bismuth 153
Clay 153
Graphite 154
Lithium 154
Magnetite 154
Peat 155
Pyrite 156
Rutile 157
Soapstone 157
Stone 157
Talc 158
Titanium 158
NTS 52D Part of Roseau Sheet 159
Clay 159
Peat 159
NTS 52E Part of Kenora Sheet 160
Asbestos 160
Beryl 160
Cobalt 160
Feldspar 160
Graphite 160

Mariposite 161
Mica 161
Soapstone 161
Stone 161
Talc 162
NTS 52F Dryden Sheet 163
Asbestos 163
Beryl 163
Bismuth 163
Cesium 164
Fluorite 164
Graphite 164
Hematite 166
Lithium 166
Magnetite 166
Malachite 166
Mica 167
Niobium 167
Pyrite 167
Soapstone 169
Stone 169
Talc 170
Tantalite 170
Tourmaline 171
NTS 52G Ignace Sheet 172
Asbestos 172
Fluorite 172
Garnet 172
Graphite 172
Magnetite 173
Muscovite 173
Peat 173
Pyrite 173
Stone 175
Tourmaline 175
NTS 52H Nipigon Sheet 176
Asbestos 176
Beryl 176
Cesium 176
Chromium 176
Cobalt 177
Hematite 177
Iridium 177
Lime 177
Limonite 178
Lithium 178
Magnetite 179
Marble 180
Marl 180
Pyrite 180
Stone 180
NTS 52I Armstrong Sheet 182
Beryl 182
Graphite 182
Hematite 183
Lithium 183
Pyrite 184
Tin 186
NTS 52J Sioux Lookout Sheet 187
Beryl 187
Cesium 187
Graphite 187
Lithium 187
Magnetite 188
Pyrite 188
Tourmaline 189

NTS 52K Lac Seul Sheet 190
Apatite 190
Beryl 190
Garnet 190
Magnetite 190
Pyrite 191
Silica 191
Tourmaline 191
NTS 52L Part of Point du Bois Sheet 192
Beryl 192
Chromium 192
Cobalt 192
Pyrite 192
Thorium 193
NTS 52M Part of Carroll Lake Sheet 194
Asbestos 194
Magnetite 194
Pyrite 194
NTS 52N Trout Lake Sheet 196
Asbestos 196
Cobalt 196
Magnetite 196
Pyrite 197
Tin 197
NTS 52O Lake St. Joseph Sheet 199
Cobalt 199
Fluorite 199
Goethite 199
Graphite 199
Hematite 202
Magnetite 202
Pyrite 204
Thorium 208
NTS 52P Miminiska Lake Sheet 209
Cobalt 209
Graphite 209
Hematite 209
Lithium 210
Magnetite 211
Pyrite 211
Tantalum 213
NTS 53A Wunnummin Lake Sheet 214
Apatite 214
Graphite 214
Magnetite 214
Niobium 214
Pyrite 214
Pyrochlore 216
Vermiculite 216
NTS 53B North Caribou Lake Sheet 217
Asbestos 217
Graphite 217
Pyrite 217
NTS 53C North Spirit Lake Sheet 219
Asbestos 219
Bismuth 219
Chromium 219
Lithium 219
Pyrite 219
Thorium 220
NTS 53E Part of Island Lake Sheet 221
Pyrite 221
NTS 53F Part of Opasquia Lake Sheet 222
Pyrite 222

NTS 53G Makoop Lake Sheet 223
Graphite 223
Pyrite 223
NTS 53H Asheweig River Sheet 225
Graphite 225
Pyrite 225
Titanium 226
NTS 53J Thorne River Sheet 227
Cerium 227
Lanthanum 227
Niobium 227
Pyrite 227
Vermiculite 227
NTS 53K Part of Stull Lake Sheet 228
Cerium 228
Lanthanum 228
Niobium 228
Pyrite 228
Vermiculite 228

FIGURES

1. Index to Ontario Mineral Potential Map Series 4
2. Regional and Resident Geologists' Areas 5
3. National Topographic System (NTS) Index 7

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS.

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

Note. Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in cooperation with the Coal Association of Canada.

Industrial Minerals of Northern Ontario

Districts of Algoma, Cochrane, Kenora, Manitoulin, Nipissing, Rainy River, Sudbury, Thunder Bay, and Timiskaming

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Abstract

This circular briefly describes industrial mineral deposits, excluding construction aggregates, of northern Ontario. For the purpose of this publication, northern Ontario is defined as that part of Ontario lying north and west of the Grenville Front. The information contained is a compilation of material collected in 1979-1981 through literature research of publications and files in the Toronto offices of the Ontario Geological Survey and the offices of Regional and Resident Geologists. This compilation is intended as a catalogue to assist in the search for mineral deposits suitable as targets for industrial mineral development.

RESUME

Cette circulaire est une brève description des dépôts de minéraux industriels du Nord de l'Ontario, à l'exclusion des agrégats de construction. Dans la présente publication, on a défini le Nord de l'Ontario comme étant la partie de la province s'étendant au Nord et à l'Ouest du front de Grenville. Les renseignements contenus ici sont une compilation de la documentation rassemblée de 1979 à 1981 au cours d'une recherche sur les publications et les dossiers des bureaux de la Commission géologique de l'Ontario situés à Toronto et des bureaux des géologues régionaux et locaux. Cette compilation constitue un catalogue que l'on pourra consulter pour rechercher les sites des dépôts miniers pouvant convenir à l'exploitation des minéraux industriels.

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Introduction

An inventory of industrial minerals in northern Ontario was undertaken by staff of the Mineral Deposits Section of the Ontario Geological Survey in cooperation with the Ministry of Natural Resource's Regional and Resident Geologists. The project has been funded by the Ontario Ministry of Northern Affairs under the Northern Industrial Mineral Study (NIMS) program. The inventory differs from Mineral Deposit Circulars which have dealt with industrial mineral and metallic ore deposits on a single commodity or ore-association basis. The present compilation is intended as a catalogue to assist in the search for mineral deposits suitable as targets for industrial mineral development.

Cause for singling out industrial minerals as a group is found in the nature of these minerals. They are the indispensible raw material of industrial development in our society. In the initial stages, deposits of clay, sand, gravel and limestone are developed to produce brick, aggregate or cement for the construction of buildings, roads and airports. These are the typically large volume, low cost industrial mineral commodities known as structural materials. They do not lend themselves to transport over large distances.

As industry diversifies in an expanding economy a multitude of elements or compounds derived from the crust of the earth are called upon to serve as raw material. Rocks, minerals or mineral components are used in ceramics, abrasives, fertilizers, chemical industries, as fillers and extenders in paint, rubber or plastics, in medicaments or cosmetics, and sometimes simply as decorative ornaments or agents of beautification. Any mineral raw material so used, provided it is not used for its metallic characteristics or as a fuel, is understood to be an industrial mineral.

It stands to reason that the group of industrial minerals includes some rare and costly species which match metals in bulk value and are equally amenable to long range transport from mine to market. Suffice it to mention diamonds as an example, or rare earths concentrated under unusual circumstances in the carbonatite-alkalic complexes, or some of the elements and minerals, e.g. lithium or beryl, found in pegmatites. In passing, lithium also illustrates particularly well the difficulty encountered in classifying the mineral kingdom according to uses. Lithium compounds are used in medicine, the ceramics industry and chemical industries, while lithium metal may become an important fuel in the near future when it is expected to provide the tritium isotope for nuclear fusion reactions.

The importance of industrial rocks and minerals is reflected in the mineral production figures for 1980 as published in the Canadian Mines Handbook (1981-82, p.382) and The Industrial Minerals of Canada — a supplement to the August 1981 issue of "Industrial Minerals" (p.22). The total national mineral production, excluding oil and gas, was $14.84 billion of which industrial minerals constituted $4.21 billion. For the Province of Ontario, total mineral production, excluding oil and gas, was estimated to be $4.65 billion of which industrial minerals constituted an estimated $776 million. It can be said that, on the average, each of the 8.5 million residents of Ontario uses 20 metric tonnes of industrial minerals per year. The majority of this mass is made up of sand, gravel, crushed stone and other construction materials.

The number of industrial minerals produced in Ontario fails to meet demand due to lack of diversification. Major commodities produced are construction aggregates, clay and shale products (brick, drain tile), cement, lime, salt, gypsum, sulphur, nepheline syenite, quartzite and fine-ground marble. Lesser amounts of barite, asbestos, peat, talc, building stone and gemstones are produced. Quartz sand, clay and carbonate of a quality not readily obtainable in Ontario are imported. Many other industrial minerals, e.g. fireclay, graphite, chromite, are imported either as raw material or as a component of the finished product, in this case refractory ceramics.

Development of industrial minerals is a function of the level to which consumer industries have developed and diversified locally. While in Ontario a search for pure potassic feldspar, or mica, or quartz is made to serve specific limited markets, in some areas of the United States eastern seaboard it is feasible to mine a feldspathic granite, separate out these different components and sell them individually to local consuming industries.

Coincidental with industrial sophistication comes the office of the middleman, mineral dealer or agent who is capable of coordinating production and consumption of mineral commodities on a regional basis. The importance of this office is particularly felt by the operator of a multimineral deposit whose chances of success are determined by the number of commodities that can be marketed. For example, the mining of a phosphate deposit which carries significant amounts of rare earth elements occurring in association with calcium carbonate rocks surrounded by vermiculite-bearing pyroxenite and overlain by kaolinite and quartz sand taxes the imagination of the best operation design engineer and marketing specialist. Chances of economic success increase according to the number of assorted products which can be sold locally. In some instances a local market may have to be developed. In industrial mineral development the need for services of a coordinating agency, whether private or governmental, is greater than, for example, in metal mining. The scarcity of these services, elsewhere provided by the mineral agent, dealer or middleman, is keenly felt in Ontario.

The mineral inventory in this circular is a compilation of basic information and briefly describes the industrial rock and mineral deposits of northern Ontario, and provides references which the reader may use for detailed information. It is complemented by Open File Reports, in preparation, which will be made available at Regional and Resident Geologists' offices of the Ministry of Natural Resources in northern Ontario and which describe the deposits listed in this circular in greater detail including mineralogy, history of development, etc. As well, these Open File Reports and a cross-reference card index system and location sheets will be available at the Ontario Geological Survey's offices in Toronto.

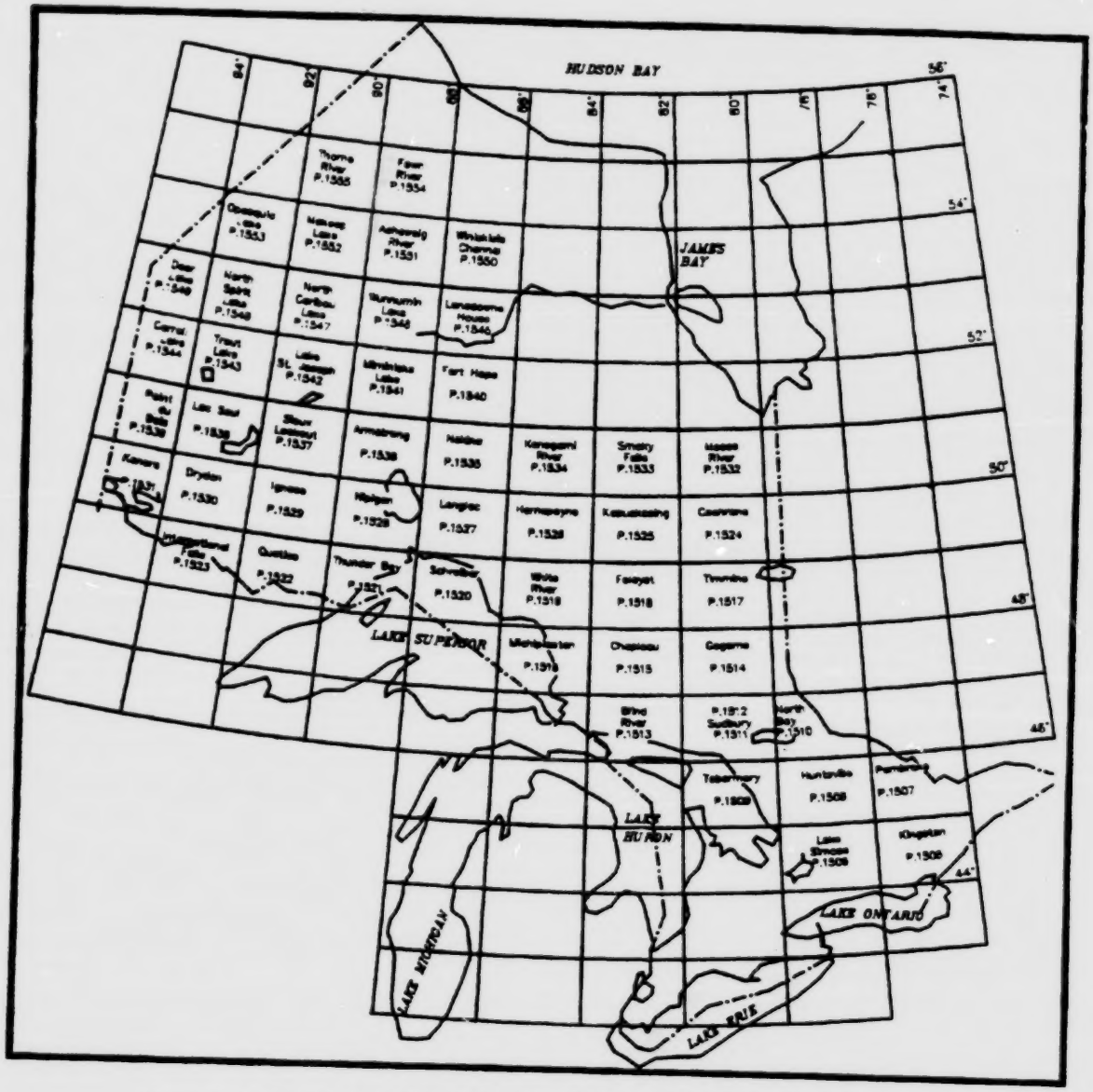

Figure 1. Index to Ontario Mineral Potential Map Series (Springer 1977, 1978).

ACKNOWLEDGMENTS

The authors wish to acknowledge the contributions made by staff of the Regional and Resident Geologists' offices in northern Ontario and by contract research staff, particularly Craig D. McConnell , Curtis Smith and Robert J. Stevenato.

SOURCES OF INFORMATION

As a basis for this circular, the Ontario Mineral Potential map-series, compiled by J.S. Springer (1977, 1978) at a scale of 1:250,000 was utilized (Figure 1). This series of maps is the most recent to cover the province including all known industrial and metallic deposits. Information on the industrial mineral deposits covered in this circular was collected and compiled through research of government publications, information filed with the Geoscience Data Centre and Assessment Files Research Office of the Ontario Geological Survey in Toronto and information filed in the Regional and Resident Geologists' offices of the Ontario Ministry of Natural Resources in various locations (Figure 2).

SCOPE AND METHODOLOGY

All known industrial mineral deposits in northern Ontario, north and west of the Grenville Front are listed in this circular, or catalogue. The Grenville Front, or

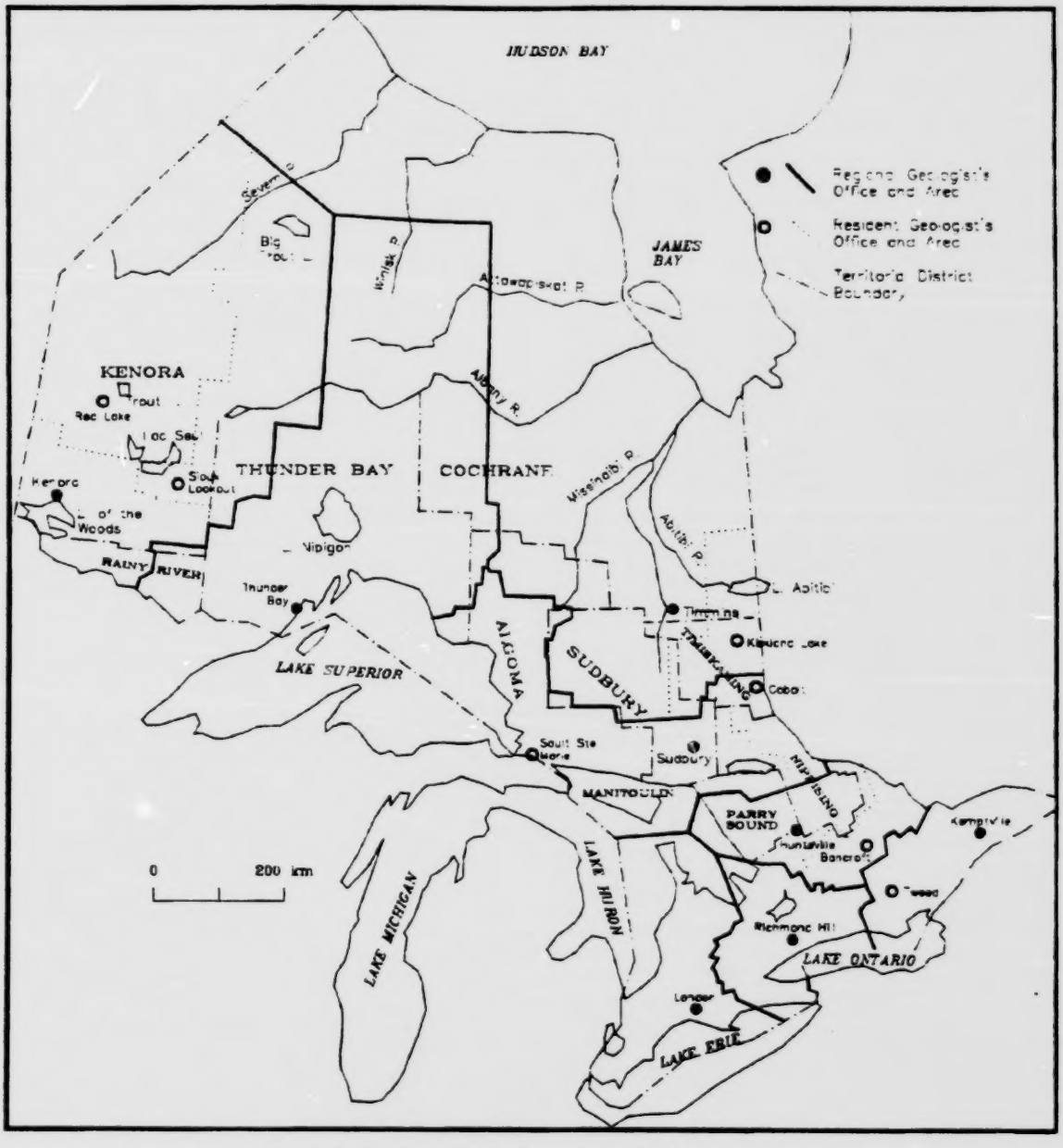

Figure 2. *Regional and Resident Geologists' Areas.*

Grenville Front Boundary Fault, is a major fault system trending northeast from Killarney on Georgian Bay to the Ottawa River in Hebert Township. Industrial minerals form a large group of commodities. For the purpose of this circular, construction aggregates have been excluded; sand and gravel are dealt with by the Engineering and Terrain Geology Section and the Aggregate Assessment Office of the Ontario Geological Survey. The reader may refer to their publications for information. Listed below are the industrial rocks, minerals and elements which are found in the deposits of Northern Ontario:

Agate
Amethyst
Anthraxolite
Apatite
Aplite
Arsenic
Asbestos

Barite
Bauxite
Beryl
Bismuth
Bismuthinite
Building stone
Calcite
Cerium
Cesium
Chlorite
Chromite
Chromium
Clay
Cobalt
Cobaltite
Columbium
Erythrite
Feldspar
Fireclay
Fluorite
Fluorspar
Garnet
Goethite
Graphite
Gypsum
Hematite
Iridium
Kaolin
Kaolinite
Lanthanum
Lignite
Lime
Limonite
Lithium
Magnesite
Magnetite
Malachite
Manganese
Mariposite
Marble
Marcasite
Marl
Mica
Muscovite
Nepheline
Niobium
Peat
Powellite
Pyrite
Pyrochlore
Quartz
Radioactive materials
Rubidium
Rutile
Scheelite
Selenium
Serpentine
Shale
Silica
Soapstone
Stone
Sulphur
Talc
Tantalite
Tellurium
Thorium
Tin
Titanium
Tourmaline
Trap Rock
Uranium
Vermiculite

DIVERGENT ENTRIES

Description of minerals and elements which required special treatment in compilation of this circular follows.

Selenium, tellurium, and sulphur are by-products of the nickel-copper mining industry in the Sudbury area. Therefore the producers, past producers and occurrences are listed in this circular with their locations only and descriptions of the deposits have been omitted. In a summary of the Sudbury ores in "Rocks and Minerals of Ontario" by D.F. Hewitt, revised by D.F. Hewitt and E.B. Freeman (1972, p.98), it is stated that "Approximately two-thirds of the Sudbury ores are classed as disseminated ores with the remainder being inclusion-bearing sulphide ores. However, all the ores show a remarkable uniformity of ore minerals. Ninety-five percent of the ore minerals consist of pyrrhotite, chalcopyrite, and pentlandite. The minor constituents: cubanite, magnetite, ilmenite, and pyrite may be locally abundant. The average grade of ore is about 1.5 percent nickel and 1.5 percent copper, but it varies from orebody to orebody. The processing of one ton of Sudbury ore containing 1 percent copper, 1 percent nickel, 15 percent iron, and 9 percent sulphur yields 18 pounds of copper, 17 pounds of nickel, 170 pounds of iron-ore pellets, 150 pounds of sulphuric acid, 1.6 ounces of cobalt, and smaller amounts of selenium, tellurium, silver, gold, platinum, palladium, rhodium, ruthenium, iridium, and osmium in addition to 1,420 pounds of ground-up waste rock (tailings)."

Cobalt found in the numerous cobalt-silver deposits of the Cobalt Embayment area have been described in detail in the publication "Silver Cobalt Calcite Vein Deposits of Ontario", by A.O. Sergiades (1968). For this reason, the cobalt deposits in the Timmins-Kirkland Lake area have been omitted and

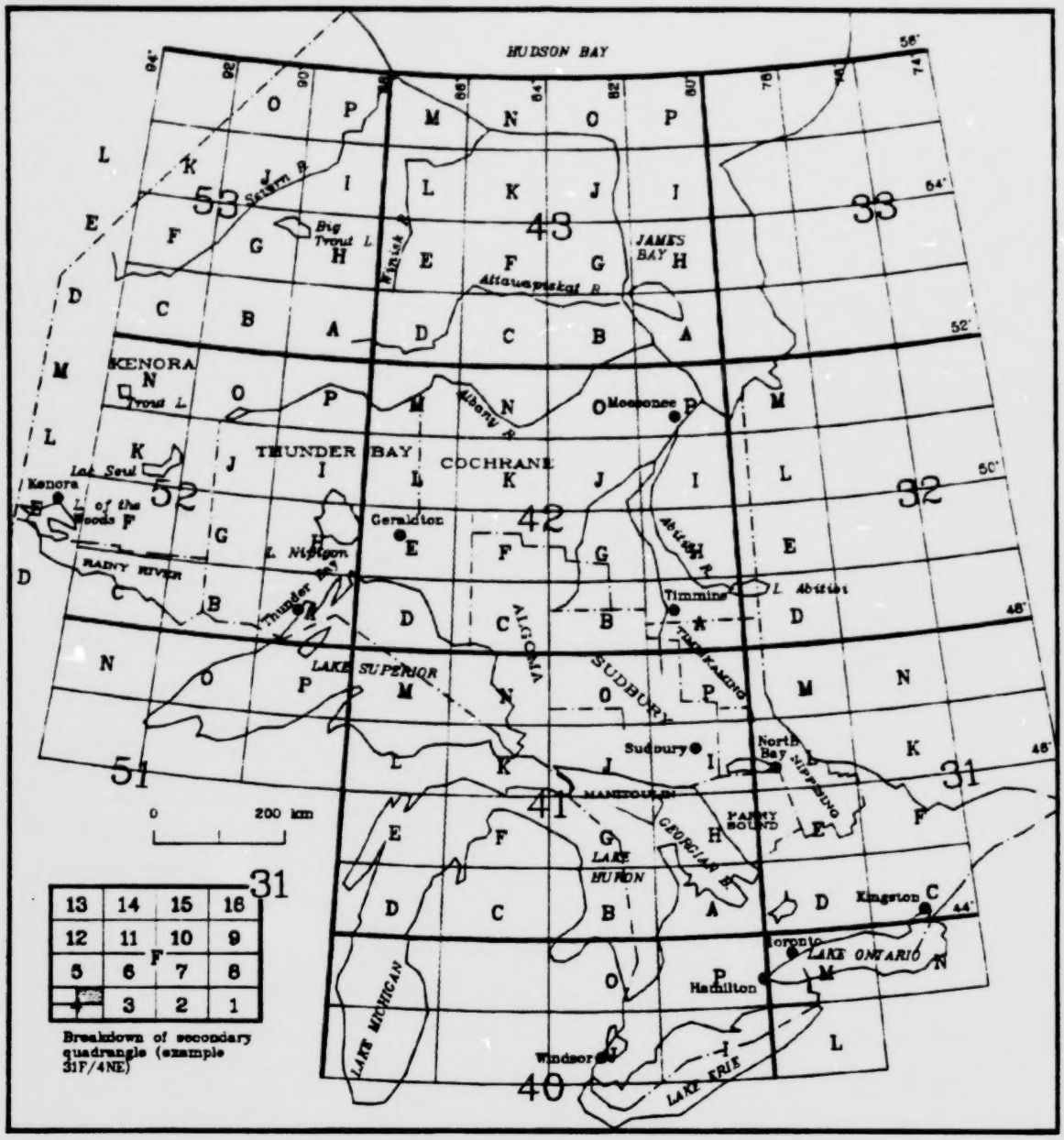

Figure 3. *National Topographic System (NTS) index for northern Ontario.*

the reader is referred to the above mentioned publication. Deposits of cobalt in the remainder of northern Ontario are included in this circular.

Magnetite concentrated in iron-ore deposits is excluded from this inventory as this magnetite is not utilized as an industrial mineral. Pyrite deposits associated with other industrial minerals are recorded fully. If pyrite and magnetite occur in a deposit on their own or with metals, only the name, location, and a reference are provided. Uranium and thorium deposits of Ontario have been covered by the publication "Uranium and Thorium Deposits of Northern Ontario" by J.A. Robertson (1968), and the updated version by J.A. Robertson and K. Gould (1982), and only the major deposits are listed in this circular.

In special cases, the reader will note that several deposits have been grouped together under one description. These deposits are either held by one company or known by one name, or, they are geographi-

cally close together and have the same geologic history.

REPORT FORMAT

All deposit descriptions are listed by National Topographic System (NTS) location, in numerical order (Figure 3). Within each one-sixteenth of the lettered quadrangle, which corresponds to an NTS sheet at scale 1:50,000, the deposits are put in the following order: northwest, northeast, southwest and southeast. Within these sections, the deposits are listed in alphabetical order by commodity and then deposit name. If a deposit has more than one industrial mineral, the description is listed under the commodity which comes first alphabetically. If a deposit has metallic as well as industrial minerals, the description is listed under the industrial mineral which comes first alphabetically. In each entry a reference is made to other commodities in the deposit and the deposits are listed under each commodity separately.

The name assigned to the deposit is that by which the deposit is commonly known or it is a reference to the company which holds the claim or did work on the deposit. A second name may also be included. Where no deposit or company name is known, a geographic name has been used.

For each deposit, location has been described geographically, where possible, as well as by an NTS number and by latitude and longitude. The latitude and longitude have been taken from literature or measured from the largest scale map available which indicates a location of the deposit by a symbol, shaft, adit, etc.

Descriptive remarks on the deposits are intended to give the reader a basic characterization of the deposit. Information is from sources as indicated previously, and from personal communication or interpretation from geology of area and marginal notes on geological maps. All units of measurement correspond to those given in source material. A metric conversion table is provided for the reader's use.

References listed should be considered as primary references which the reader may review to obtain detailed information and further references.

A map reference is given only if a symbol indicating precise location appears on the map. If this map is part of a publication listed as a reference, it is not listed separately. The "Ontario Mineral Potential" map series was used as a basis for this circular, as mentioned previously, and should be considered as the primary map reference although it is not referenced specifically in the text.

Since industrial rocks and minerals are as diverse a group as are their uses, mode of origin and occurrence, there cannot be a single rule of thumb of classification. Widely used, and adhered to in this publication, are the following classifications: (1) Producer — in production at time of compilation, (2) Past Producer — having had some production of economic value, (3) Major Occurrence — large sized deposit that has been developed or has possibilities of development, and (4) Minor Occurrence — available information suggests little or no potential.

NTS 31M PART OF VILLE MARIE SHEET

ARSENIC

BIG DAN MINE

Classification

Past producer

Commodities

Arsenic, silver, gold

Location

NTS 31M/4SW

Strathy Township

South end of Net Lake

Latitude	Longitude
47°05'31"	79°46'33"

Remarks

The mineralized zone, striking north for 2,000 feet, consists of blebs and veinlets of arsenopyrite and pyrrhotite, within basalt and quartz porphyry. There is no production figure but ore was shipped in approximately 1906.

References

Bennett (1978a, p.104-105)

Gordon et al. (1979, p.25)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Sudbury

Big Dan Mines Ltd. (1949), Strathy Township.

PENROSE PROSPECT

Classification

Past producer

Commodities

Arsenic, gold

Location

NTS 31M/4SW

Strathy Township

East end of Arsenic Lake

Latitude	Longitude
47°05'40"	79°47'53"

Remarks

An altered and sheared zone strikes N14W and dips 50-60°W in intermediate to mafic metavolcanics. It contains discontinuous arsenide-bearing quartz veins over a distance of 2,000 feet. There are three showings on the property.

References

Bennett (1978a, p.100)

Gordon et al. (1979, p.25-26)

ASBESTOS

SKEAD TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 31M/13NE

Skead Township

Latitude	Longitude
47°59'30"	79°41'00"

Remarks

Chrysotile asbestos is found in a thick peridotite sill that crosses the northern concessions of the township. The peridotite has been completely serpentinized and in places is veined with asbestos.

References

Hewitt (1951, p.29)

CALCITE

MILLER DEPOSIT

Classification

Minor occurrence

Commodities

Calcite, cobalt

Location

NTS 31M/3NW

South Lorrain Township

Latitude	Longitude
47°11'52"	79°27'28"
47°11'26"	79°27'36"

Remarks

A 60-foot long adit, in Nipissing Diabase, is reported to have two calcite veins. One of the veins is reported to be up to 18 inches wide. Assay values from the end of the tunnel give 0.48 and 0.42 percent cobalt. Calcite is found in a small pit in the metavolcanics, south of the adit.

References

McIlwaine (1970, p.50)

Sergiades (1968, p.439)

UNITED MACFIE DEPOSIT

Classification

Minor occurrence

Commodities

Calcite, pyrite

Location

NTS 31M/3NW

South Lorrain Township

Latitude	Longitude
47°11'59"	79°26'45"

Remarks

Pyrite and chalcopyrite show in a pit dug in metavolcanics. Calcite stringers are evident in the dump site nearby.

References

McIlwaine (1970, p.82)

Sergiades (1968, p.438)

CERIUM

NEIL DEPOSIT

Classification

Minor occurrence

Commodities

Cerium, lanthanum

Location

NTS 31M/4SW

Strathcona Township

East end of Lake Temagami

Latitude	Longitude
47°01'35"	79°48'30"

Remarks

The occurrence is in an area of Archean mafic to intermediate metavolcanics. A carbonate dike contains four small highly radioactive veins.

References

Robertson (1968, p.64)

Map Reference

ODM Map 2323 (Bennett and Innes 1975)

COBALT

MILLER DEPOSIT

Classification

Minor occurrence

Commodities

Calcite, cobalt

Location

NTS 31M/3NW

Listed under CALCITE

ERYTHRITE

MINING CORPORATION DEPOSIT (FORNERI GROUP)

Classification

Minor occurrence

Commodities

Erythrite

Location

NTS 31M/4NE

South Lorrain Township

Claim HS42

Latitude	Longitude
47°12'21"	79°30'22"

Remarks

Records from 1910 report a 3-inch wide vein occurring in conglomerate which contains smaltite, and copper pyrites in calcite and quartz. Silver values were obtained as well. Three shafts and diamond drilling indicate that the veins are copper-cobalt bearing, an unusual feature for this area as the veins are in Coleman Formation rocks and are separated from the underlying diabase by about 900 to 1,000 feet of metavolcanics.

References

McIlwaine (1970, p.63-65)

Sergiades (1968, p.439)

LANTHANUM

NEIL DEPOSIT

Classification

Minor occurrence

Commodities

Cerium, lanthanum

Location

NTS 31M/4SW

Listed under CERIUM

LIME

DYMOND TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Lime

Location

NTS 31M/12SE

Dymond Township

Latitude	Longitude
47°31'00"	79°42'15"

Remarks

This occurrence belongs to the Thornloe Formation which consists of yellowish brown to pale grey strata that originally were fragmental limestones, and are now dolomitic with small lenses of pale grey chert. The grain size is medium to coarse. The Thornloe Formation in this area has been burnt for lime.

References

Lovell and Frey (1976, p.14,15)

PYRITE

UNITED MACFIE DEPOSIT

Classification

Minor occurrence

Commodities

Calcite, pyrite

Location

NTS 31M/3NW

Listed under CALCITE

NORTHLAND PYRITES MINE

Classification

Past producer

Commodities

Pyrite, chalcopyrite, pyrrhotite

Location

NTS 31M/4NE

Best Township

South shore of James Lake

Latitude	Longitude
47°10'25"	79°44'35"

References

Todd (1926, p.104)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Northland Pyrites Mine, Township Best, District Nipissing.

TASSE LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 31M/4SW

Chambers Township

Three small outcrops are west and southwest of Tasse Lake.

Latitude	Longitude
47°04'23"	79°59'23"
47°04'46"	79°59'32"
47°04'30"	79°59'22"

Map Reference

ODMNA Map P.666 (Bennett and Innes 1971)

MANDY CLAIM

Classification

Minor occurrence

Commodities

Pyrite, quartz

Location

NTS 31M/4SE

Cassels Township

East shore of Outlet Bay

Latitude	Longitude
47°04'52"	79°43'50"

Remarks

The country rock is metavolcanics. The deposit has unaltered pyrites which are underneath a twin capping of gossan and cellular leached quartz. Shallow pits and trenches were dug on the property.

References

Hewitt (1967b, p.40)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Mandy, Township Cassels, District Nipissing.

Map Reference

ODM Map 34b (Todd 1925b)

QUARTZ

MANDY CLAIM

Classification

Minor occurrence

Commodities

Pyrite, quartz

Location

NTS 31M/4SE

Listed under PYRITE

SILICA

CUNIPTAU DEPOSIT

Classification

Minor occurrence

Commodities

Silica

Location

NTS 31M/4NE

Best Township

Latitude	Longitude
47°09'10"	79°44'40"

Remarks

The occurrence is a siliceous replacement of granite, with accompanying quartz veins, along a fractured zone. The zone is about 1,700 feet long and up to 125 feet wide.

References

Thomson, R. (1968, p.52,53)

STONE

FARR'S QUARRY

Classification

Producer

Commodities

Stone

Location

NTS 31M/5NE

Bucke Township, NW lot 11, concession III

Latitude	Longitude
47°26'55"	79°39'11"

Remarks

The deposit consists of flat beds up to 3 feet thick. The beds are fine-grained bluish limestone which is mottled by a finely-grained, dull-lustered magnesium limestone of a darker colour.

References

Thomson, R. (1964, p.21)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Farr's Quarry, Township Bucke, District Timiskaming.

Map Reference

ODM Map 1956a (Thomson, R., 1956)

HARRIS TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Stone

Location

NTS 31M/5NE

Harris Township, lot 5, concession I.

Latitude	Longitude
47°29'30"	79°35'00"

Remarks

A potential source of building stone is the Lockport (Thornloe) dolomite which is exposed in the western part of the township. Three small quarries have been opened, located 1,300 feet northeast, 1,300 feet north, and 800 feet northeast of the southwest corner of lot 5, concession I.

References

Thomson, R. (1965, p.58)

MOORE CREEK DEPOSIT

Classification

Minor occurrence

Commodities

Stone

Location

NTS 31M/5NE

Bucke Township, lot 10, concession V.

Latitude	Longitude
47°28'16"	79°39'26"

Remarks

There is a small bed of medium to fine-grained calcitic limestone streaked and interbedded with shale. The proportion of shale to limestone increases with depth, until at 20 feet there is only shale.

References

Thomson, R. (1964, p.8-9)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Moore Creek, Township Bucke, District Timiskaming.

Map Reference

ODM Map 1956a (Thomson, R., 1956)

ARMSTRONG TOWNSHIP DEPOSIT

Classification

Major occurrence

Commodities

Stone

Location

NTS 31M/12NW

Armstrong Township

Latitude	Longitude
47°41'45"	79°52'35"

Remarks

The limestone is of Silurian age and is quarried at this location for road and airport runway fill.

References

Lovell (1977a, p.10)

Map Reference

OGS Map P.1223 (Lovell 1977b)

HARLEY TOWNSHIP DEPOSIT

Classification

Major occurrence

Commodities

Stone

Location

NTS 31M/12SE

Harley Township, lot 9, concessions II and III.

Latitude	Longitude
47°36'38"	79°40'23"
47°36'08"	79°40'25"

Remarks

These two occurrences are in the Thornloe Formation which consists of yellowish brown to pale grey strata that originally were fragmental limestones, and are now dolomitic with small lenses of pale grey chert. The grain size is medium to coarse.

References

Lovell and Frey (1976, p.14-15)

NTS 32D PART OF NORANDA-ROUYN SHEET

ASBESTOS

MCELROY TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 32D/4SW

McElroy Township

Southeastern corner of township.

Latitude	Longitude
48°01'25"	79°47'05"

Remarks

Some chrysotile asbestos and serpentine have been found in a serpentinized sill.

References

Abraham (1951, p.37)

Vos (1971, p.31)

Map Reference

ODM Map 2205 (Pyke et al. 1973)

BIRD-GINN DEPOSIT (CANADIAN JOHNS-MANVILLE DEPOSIT)

Classification

Past producer and minor occurrences

Commodities

Asbestos

Location

NTS 32D/12SW

Garrison Township

Northwestern part of the township, north of Highway 101.

Latitude	Longitude
48°31'08"	79°56'42"
48°31'45"	79°56'20"
48°31'35"	79°55'25"
48°31'45"	79°54'30"

Remarks

Asbestos veins, 1/8 inch to 1/2 inch wide, occur in Early Precambrian serpentinized peridotite and dunite which form part of the Ghost Range Intrusion. No information on the asbestos fibre content is available.

References

Vos (1971, p.44,59)

Map Reference

ODM Map 2205 (Pyke et al. 1973)

GHOST MOUNTAIN GROUP (CANADIAN JOHNS-MANVILLE DEPOSIT)

Classification

Major and minor occurrences

Commodities

Asbestos

Location

NTS 32D/12SW

Harker Township

On the north border of the township.

Latitude	Longitude
48°31'49"	79°49'25"
48°32'05"	79°46'40"

Remarks

Chrysotile asbestos veins, 1/20 to 1/2 inch wide with a fibre content up to 2 percent, occur in Early Precambrian serpentinized dunite and peridotite which form part of the Ghost Range Intrusion.

References

Vos (1971, p.60)

Map Reference

ODM Map 2205 (Pyke et al. 1973)

FRECHEVILLE TOWNSHIP DEPOSIT (DOMINION GULF DEPOSIT)

Classification

Minor occurrence

Commodities

Magnetite, pyrite, asbestos

Location

NTS 32D/12SE

Frecheville Township

Southwest part of township.

Latitude	Longitude
48°32'44"	79°44'25"

Remarks

An occurrence of magnetite, pyrite and asbestos is found in Early Precambrian mafic and ultramafic intrusive rocks which form part of the Ghost Range Complex.

References

Jensen (1973a, p.134,137)

Map Reference

ODM Map P.798 (Lovell and Frey 1973c)

LIGHTNING MOUNTAIN DEPOSIT (DOMINION GULF DEPOSIT)

Classification

Minor occurrences

Commodities

Asbestos

Location

NTS 32D/12SE

Holloway Township

Southwest of Lightning Mountain.

Latitude	Longitude
48°31'50"	79°43'47"
48°31'56"	79°43'28"
48°31'50"	79°42'45"
48°31'52"	79°42'32"
48°31'59"	79°42'00"

Remarks

Asbestos occurs in Early Precambrian peridotite at the east end of the Ghost Range Intrusive.

References

Vos (1971, p.60-61)

Map Reference

ODM Map 2205 (Pyke et al. 1973)

ODM Map P.797 (Lovell and Frey 1973b)

PEAT'S POINT DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos, chromite

Location

NTS 32D/13NW

Steele Township

Peat's Point, Northeast Bay, Lake Abitibi.

Latitude	Longitude
48°54'25"	79°54'50"

Remarks

Asbestos and chromite occur in serpentinite at Peat's Point. The asbestos is cross-fibre type with none of the fibre being more than 1/2 inch long. It is found in lenticular veinlets up to 1/2 inch wide and usually not more than 2 or 3 feet long. There is no network of veinlets and veinlets constitute less than 1 percent of the serpentinite. A grab sample assayed 6.72 percent Cr_2O_3 from this location.

References

Lumbers (1962, p.44)

BARITE

BOURDON DEPOSIT

Classification

Minor occurrence

Commodities

Barite

Location

NTS 32D/4NW

Morrisette Township

Approximately 3,000 feet southeast of Morrisette Lake.

Latitude	Longitude
48°11'29"	79°56'45"

Remarks

Some barite is found in small veins which consist of equal amounts of quartz and a white carbonate mineral.

References

Rupert and Lovell (1970, p.20)

Map Reference

ODM Map P.447 (Rupert and Lovell 1968b)

BISMUTH

MONDOUX DEPOSIT

Classification

Minor occurrence

Commodities

Gold, copper, lead, zinc, bismuth

Location

NTS 32D/45W

McElroy Township

Southwestern part of township

Latitude	Longitude
48°02'30"	79°53'50"

Remarks

Chalcopyrite, pyrite, galena, sphalerite, pyrrhotite, bismuth and gold were found in a quartz-carbonate vein at the point of intersection with a granite dike.

References

Abraham (1951, p.51-52)

Gordon et al. (1979, p.211)

Map Reference

ODM Map 2205 (Pyke et al. 1973)

CHROMITE

PEAT'S POINT DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos, chromite

Location

NTS 32D/13NW

Listed under ASBESTOS

STEELE TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Chromite

Location

NTS 32D/13NW

Steele Township, lot 2, concession E

Latitude	Longitude
48°56'10"	79°53'40"

Remarks

Chromite occurs in serpentinite at this location. A grab sample assayed 2.76 percent chromium.

References

Lumbers (1962, p.44)

GRAPHITE

RONAL DEPOSIT

Classification

Minor occurrence

Commodities

Gold, graphite

Location

NTS 32D/4NW

Morrisette Township

Southeastern corner of township

Latitude	Longitude
48°11'08"	79°53'46"
48°11'04"	79°53'35"

Remarks

Pyrite, graphite and visible gold mineralization were found in quartz-carbonate stringers and veins. They are located in a shear zone of sericitized chloritized schist.

References

Gordon et al. (1979, p.219)

Rupert and Lovell (1970, p.22)

STEELE TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, pyrrhotite, chalcopyrite, magnetite, silver

Location

NTS 32D/13NW

Steele Township, lot 1, concession E

Latitude	Longitude
48°56'05"	79°53'05"

Remarks

The occurrence is in an area of Keewatin (Early Precambrian) metasediments consisting mainly of graphitic slate with cherty bands.

References

Baker (1909, p.276)

Lumbers (1962, p.44)

MAGNETITE

LAMPLOUGH TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 32D/12SW

Lamplough Township

Latitude	Longitude
48°33'00"	79°45'25"

Map Reference

ODM Map P.779 (Lovell and Frey 1973a)

FRECHEVILLE TOWNSHIP DEPOSIT (DOMINION GULF DEPOSIT)

Classification

Minor occurrence

Commodities

Magnetite, pyrite, asbestos

Location

NTS 32D/12SE

Listed under ASBESTOS

STEELE TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, pyrrhotite, chalcopyrite, magnetite, silver

Location

NTS 32D/13NW

Listed under GRAPHITE

PYRITE

MALLARD LAKE DEPOSIT (JACK POST CLAIMS)

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 32D/4NW

Morrisette Township

Approximately 2,000 feet southeast of Morrisette Lake.

Latitude	Longitude
48°11'48"	79°57'08"

Map Reference

ODM Map P.447 (Rupert and Lovell 1968b)

PONTIAC TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 32D/5SE

Pontiac Township

Occurrence is less than 1,000 feet southwest of Clarice Lake.

Latitude	Longitude
48°19'58"	79°33'55"

Map Reference

ODMNA Map P.629 (Jensen 1971)

FRECHEVILLE TOWNSHIP DEPOSIT (DOMINION GULF DEPOSIT)

Classification

Minor occurrence

Commodities

Magnetite, pyrite, asbestos

Location

NTS 32D/12SE

Listed under ASBESTOS

STOUGHTON TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, chalcopyrite

Location

NTS 32D/12SE

Stoughton Township

Latitude	Longitude
48°34'01"	79°34'27"

Map Reference

ODM Map P.823 (Jensen 1973b)

NTS 32E PART OF UPPER HARRICANAW RIVER SHEET

GRAPHITE

ABBOTSFORD TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite, graphite

Location

NTS 32E/4SE

Abbotsford Township

Latitude	Longitude
49°07'20"	79°43'50"

Remarks

The occurrence is in an area of acid volcanic rocks. There are quartz veins up to 18 inches wide at this location.

References

Lumbers (1963a, p.36)

ADAIR TOWNSHIP DEFOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, graphite

Location

NTS 32E/4SE

Adair Township

Southwest corner of township.

Latitude	Longitude
49°04'58"	79°40'45"
49°04'37"	79°40'00"
49°05'40"	79°39'15"

Remarks

The occurrence is marked by a prominent tuffaceous layer interbedded with acid Adair Volcanic rocks striking N50W. Numerous discontinuous narrow shear zones are marked by gossan cappings. Mineralization is mainly pyrite and pyrrhotite.

References

Lumbers (1963a, p.36)

LITHIUM

CASE DEPOSIT (DEX DEPOSIT)

Classification

Minor occurrence

Commodities

Lithium

Location

NTS 32E/4SW

Steele Township, lot 5, concession V

Latitude	Longitude
49°02'00"	79°55'45"

Remarks

A complex east-trending pegmatite dike, containing spodumene in well-formed crystals, has been traced for 825 feet along strike, attaining a width of 100 feet in the Case batholith. Spodumene is estimated to make up 10-15 percent of the dike, the best developed spodumene being in the quartz-rich core of the dike. Rare molybdenite crystals, columbite-tantalite and traces of beryllium are also present. A grab sample of the dike assayed 0.65 percent Li and trace Be; a selected sample of spodumene assayed 7.63 percent Li_2O.

References

Lumbers (1962, p.45-46)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Case, Township Steele, District Cochrane

MAGNETITE

ABBOTSFORD TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite, magnetite

Location

NTS 32E/4SW

Abbotsford Township

Latitude	Longitude
49°06'10"	79°45'15"

Map Reference

ODM Map 2025 (Lumbers 1963b)

PYRITE

ABBOTSFORD TOWNSHIP DEPOSIT 1

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, chalcopyrite, epidote

Location

NTS 32E/4NW

Abbotsford Township

Latitude	Longitude
49°09'10"	79°46'15"

Map Reference

ODM Map 2025 (Lumbers 1963b)

ABBOTSFORD TOWNSHIP DEPOSIT 2

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, chalcopyrite, epidote

Location

NTS 32E/4NE

Abbotsford Township

Latitude	Longitude
49°07'35"	79°43'00"

Map Reference

ODM Map 2025 (Lumbers 1963b)

ADAIR TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, graphite

Location

NTS 32E/4SW

Listed under GRAPHITE

ABBOTSFORD TOWNSHIP DEPOSIT 3

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite, magnetite

Location

NTS 32E/4SW

Listed under MAGNETITE

ROFORD DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 32E/4SW

Steele Township, NE lot 8, concession III.

Latitude	Longitude
49°00'50"	79°57'35"

References

Lumbers (1962, p.41-43)

ABBOTSFORD TOWNSHIP DEPOSIT 4

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite, graphite

Location

NTS 32E/4SE

Listed under GRAPHITE

NTS 41I PART OF SUDBURY SHEET

ANTHRAXOLITE

GORDON COAL DEPOSIT

Classification

Minor occurrence

Commodities

Anthraxolite

Location

NTS 41I/11SW

Balfour Township, lot 10, concession I.

Latitude	Longitude
46°33'15"	81°16'45"

Remarks

The anthraxolite occurs as an irregular vein in black, fissile slate. It does not form a bed, but cuts across the slate, which has a strike of about N60E. The vein is approximately 6 to 9 feet thick and 12 feet wide. The anthraxolite proved to be worthless as a fuel due to the ash content (50 percent).

References

Thomson, J.E. (1957, p.2.8)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Sudbury

Mineral Occurrence File - Gordon Coal Mine.

BISMUTH

STRATHCONA MINE

Classification

Producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se, Bi, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°40'45"	81°20'45"

COBALT

SULTANA DEPOSIT

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag

Location

NTS 41I/5NE

Trill Township

Latitude	Longitude
46°27'30"	81°30'50"

TRILLABELLE DEPOSIT

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/5NE

Trill Township

Latitude	Longitude
46°29'52"	81°32'30"

CHICAGO MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Drury Township

Latitude	Longitude
46°26'15"	81°27'45"

CREAN HILL MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°25'45"	81°21'00"

ELLEN PIT

Classification

Past producer

Commodities

Ni, Cu, Pt, Co, Au, Ag, Pd, Rh, Ir, Se, Fe, Ru, S

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°26'15"	81°19'15"

TOTTEN MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Fe, Co, Au, Ag, Te, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Drury Township

Latitude	Longitude
46°22'46"	81°27'24"

VERMILION MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°24'56"	81°21'38"

VICTORIA MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°25'45"	81°23'30"

WORTHINGTON (CREAN) MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°23'02"	81°26'52"

LOCKERBY DEPOSIT

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°25'50"	81°19'30"

CLARABELLE PIT

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°29'45"	81°04'30"

COPPER CLIFF MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

McKim Township

Latitude	Longitude
46°28'45"	81°03'50"

COPPER CLIFF NORTH MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, S

Location

NTS 41I/6NE

McKim Township

Latitude	Longitude
46°29'30"	81°04'00"

COPPER CLIFF NO. 1 MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°28'30"	81°04'15"

COPPER CLIFF NO. 2 MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

McKim Township

Latitude	Longitude
46°29'00"	81°04'00"

COPPER CLIFF SOUTH MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°27'30"	81°04'45"

CREIGHTON MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°28'00"	81°11'30"

EVANS MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°27'45"	81°04'25"

GERTRUDE MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Creighton Township

Latitude	Longitude
46°27'45"	81°13'10"

NORTH STAR MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°29'10"	81°10'00"

SNIDER TOWNSHIP DEPOSIT

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°29'30"	81°08'15"

CAPRE PROSPECT

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/10NW

Capreol Township

Latitude	Longitude
46°42'45"	80°50'15"

NICKEL RIM MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru

Location

NTS 41I/10NW

MacLennan Township

Latitude	Longitude
46°38'45"	80°52'15"

VICTOR MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru

Location

NTS 41I/10NW

MacLennan Township

Latitude	Longitude
46°40'45"	80°51'00"

BLEZARD MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Blezard Township

Latitude	Longitude
46°33'30'Longi-	
tude 80°58'45"	

FALCONBRIDGE MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Co, Au, Ag, Pd, Rh, Ir, Se, Fe, Ru, S

Location

NTS 41I/10SW

Falconbridge Township

Latitude	Longitude
46°35'15"	80°47'45"

FALCONBRIDGE EAST MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Co, Au, Ag, Pd, Rh, Ir, Se, Fe, Ru, S

Location

NTS 41I/10SW

Falconbridge Township

Latitude	Longitude
46°35'00"	80°47'00"

GARSON MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Garson Township

Latitude	Longitude
46°34'15"	80°50'15"

KIRKWOOD MINE (MCCONNELL MINE)

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Garson Township

Latitude	Longitude
46°34'15"	80°51'30"

NORDUNA MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Co, Au, Ag, Pd, Rh, Ir, Se, Fe, Ru, S

Location

NTS 41I/10SW

Falconbridge Township

Latitude	Longitude
46°36'15"	80°45'50"

SHEPARD PROPERTY

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Blezard Township

Latitude	Longitude
46°34'10"	80°57'00"

STOBIE MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Blezard Township

Latitude	Longitude
46°32'30"	80°59'15"

FALCONBRIDGE TOWNSHIP DEPOSIT

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/10SW

Falconbridge Township

Latitude	Longitude
46°35'45"	80°45'45"

BOUNDARY MINE

Classification

Past producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°38'00"	81°23'15"

COLEMAN MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Ir, Ru, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°40'30"	81°20'15"

FECUNIS MINE (NORTH MINE)

Classification

Past producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°39'30"	81°21'15"

HARDY MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°37'45"	81°24'15"

LEVACK MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°39'00"	81°22'30"

LEVACK WEST PROPERTY

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°38'15"	81°24'00"

LONGVACK SOUTH MINE (LONGVACK MINE)

Classification

Past producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°41'00"	81°21'30"

ONAPING MINE

Classification

Past producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°38'15"	81°23'00"

STRATHCONA MINE

Classification

Producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se, Bi, S

Location

NTS 41 I/11NW

Levack Township

Latitude	Longitude
46°40'45"	81°20'45"

BIG LEVACK PROPERTY

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/11NE

Levack Township

Latitude	Longitude
46°41'00"	81°14'30"

FOY OFFSET PROPERTY

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/11NE

Bowell Township

Latitude	Longitude
46°44'30"	81°08'30"

NORTH RANGE DEPOSIT

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/11NE

Wisner Township

Latitude	Longitude
46°44'30"	81°03'15"

ELSIE MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11SE

McKim Township

Latitude	Longitude
46°30'36"	81°04'15"

FROOD MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru,S

Location

NTS 41I/11SE

McKim Township

Latitude	Longitude
46°31'45"	81°00'24"

LITTLE STOBIE MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11SE

Blezard Township

Latitude	Longitude
46°32'50"	81°00'20"

MCKIM MINE

Classification

Past producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se

Location

NTS 41I/11SE

McKim Township

Latitude	Longitude
46°31'30"	81°03'15"

MURRAY MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11SE

McKim Township

Latitude	Longitude
46°30'50"	81°04'00"

JOE LAKE DEPOSIT

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/14SE

Wisner Township

Latitude	Longitude
46°45'15"	81°02'00"

WHISTLE MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru

Location

NTS 41I/15SW

Norman Township

Latitude	Longitude
46°46'30"	80°52'45"

FLUORITE

MONCRIEFF TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Fluorite, molybdenum

Location

NTS 41I/13SE

Moncrieff Township

In a road-cut on the west side of Highway 144.

Latitude	Longitude
46°46'45"	81°36'45"

Remarks

Molybdenite and fluorite coatings on joint planes were observed in Early Precambrian quartz monzonite that intrudes the Benny metavolcanics. Three diamond-drill holes, a geological survey, and an electromagnetic survey were done by Hollinger Mines Limited in 1977.

References

Card and Innes (1978, p.133-134)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Sudbury

File Hollinger Mines Ltd.

Map Reference

ODM Map P.1107 (Card and Innes 1976)

IRIDIUM

CHICAGO MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Drury Township

Latitude	Longitude
46°26'15"	81°27'45"

CREAN HILL MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°25'45"	81°21'00"

ELLEN PIT

Classification

Past producer

Commodities

Ni, Cu, Pt, Co, Au, Ag, Pd, Rh, Ir, Se, Fe, Ru, S

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°26'15"	81°19'15"

LOCKERBY DEPOSIT

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°25'50"	81°19'30"

TOTTEN MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Fe, Co, Au, Ag, Te, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Drury Township

Latitude	Longitude
46°22'46"	81°27'24"

VERMILION MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°24'56"	81°21'38"

VICTORIA MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°25'45"	81°23'30"

WORTHINGTON (CREAN) MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°23'02"	81°26'52"

CLARABELLE PIT

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°29'45"	81°04'30"

COPPER CLIFF MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

McKim Township

Latitude	Longitude
46°28'45"	81°03'50"

COPPER CLIFF NO. 1 MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41 I/6NE

Snider Township

Latitude	Longitude
46°28'30"	81°04'15"

COPPER CLIFF NO. 2 MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

McKim Township

Latitude	Longitude
46°29'00"	81°04'00"

COPPER CLIFF SOUTH MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°27'30"	81°04'45"

CREIGHTON MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°28'00"	81°11'30"

EVANS MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°27'45"	81°04'25"

GERTRUDE MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Creighton Township

Latitude	Longitude
46°27'45"	81°13'10"

NORTH STAR MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°29'10"	81°10'00"

NICKEL RIM MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru

Location

NTS 41I/10NW

MacLennan Township

Latitude	Longitude
46°38'45"	80°52'15"

VICTOR MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru

Location

NTS 41I/10NW

MacLennan Township

Latitude	Longitude
46°40'45"	80°51'00"

BLEZARD MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Blezard Township

Latitude	Longitude
46°33'30"	80°58'45"

FALCONBRIDGE MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Co, Au, Ag, Pd, Rh, Ir, Se, Fe, Ru, S

Location

NTS 41I/10SW

Falconbridge Township

Latitude	Longitude
46°35'15"	80°47'45"

FALCONBRIDGE EAST MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Co, Au, Ag, Pd, Rh, Ir, Se, Fe, Ru, S

Location

NTS 41I/10SW

Falconbridge Township

Latitude	Longitude
46°35'00"	80°47'00"

GARSON MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Garson Township

Latitude	Longitude
46°34'15"	80°50'15"

KIRKWOOD MINE (MCCONNELL MINE)

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Garson Township

Latitude	Longitude
46°34'15"	80°51'30"

NORDUNA MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Co, Au, Ag, Pd, Rh, Ir, Se, Fe, Ru, S

Location

NTS 41I/10SW

Falconbridge Township

Latitude	Longitude
46°36'15"	80°45'50"

SHEPARD PROPERTY

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Blezard Township

Latitude	Longitude
46°34'10"	80°57'00"

STOBIE MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Blezard Township

Latitude	Longitude
46°32'30"	80°59'15"

BOUNDARY MINE

Classification

Past producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°38'00"	81°23'15"

COLEMAN MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Ir, Ru, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°40'30"	81°20'15"

FECUNIS MINE (NORTH MINE)

Classification

Past producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°39'30"	81°21'15"

HARDY MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°37'45"	81°24'15"

LEVACK MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°39'00"	81°22'30"

LEVACK WEST PROPERTY

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°38'15"	81°24'00"

LONGVACK SOUTH MINE (LONGVACK MINE)

Classification

Past producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°41'00"	81°21'30.

ONAPING MINE

Classification

Past producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°38'15"	81°23'00"

STRATHCONA MINE

Classification

Producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se, Bi, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°40'45"	81°20'45"

ELSIE MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11SE

McKim Township

Latitude	Longitude
46°30'36"	81°04'15"

FROOD MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11SE

McKim Township

Latitude	Longitude
46°31'45"	81°00'24"

LITTLE STOBIE MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11SE

Blezard Township

Latitude	Longitude
46°32'50"	81°00'20"

MCKIM MINE

Classification

Past producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se

Location

NTS 41I/11SE

McKim Township

Latitude	Longitude
46°31'30"	81°03'15"

MURRAY MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11SE

McKim Township

Latitude	Longitude
46°30'50"	81°04'00"

WHISTLE MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru

Location

NTS 41I/15SW

Norman Township

Latitude	Longitude
46°46'30"	80°52'45"

MAGNETITE

GENEVA LAKE PROSPECT

Classification

Major occurrence

Commodities

Zinc, copper, magnetite

Location

NTS 41I/13SE

Hess Township

One mile east of Genoa Lake.

Latitude	Longitude
46°46'00"	81°31'00"

References

Osborne (1930, p.67)

SMITH PROSPECT

Classification

Major occurrence

Commodities

Magnetite

Location

NTS 41I/14NW

Rhodes Township

One mile east of the north end of Richardson Lake.

Latitude	Longitude
46°55'47"	81°24'54"

Map Reference

OGS Map 2413 (Dressler 1978)

QUARTZ

MORTON LAKE DEPOSIT (TAYLOR CLAIMS)

Classification

Major occurrence

Commodities

Quartz

Location

NTS 41I/13NW

Kitchener Township

On the south shore of the lake just east of the southeast bay of Morton Lake.

Latitude	Longitude
46°53'13"	81°47'42"

Remarks

The quartz veins run along a metavolcanic-granite contact. The metavolcanics are Keewatin and the granite seems to be Algoman in age. There are exceptionally clean crystals of quartz which occur in vugs in narrow fissure veins that intersect syenite gneiss. The vugs have a maximum diameter of 3 inches and they are lined with crystals up to 1/2 inch in width.

References

Kindle (1933, p.39-41)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Morton Lake, Township Kitchener, District Sudbury.

SELENIUM

SULTANA DEPOSIT

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag

Location

NTS 41I/5NE

Trill Township

Latitude	Longitude
46°27'30"	81°30'50"

TRILLABELLE DEPOSIT

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/5NE

Trill Township

Latitude	Longitude
46°29'52"	81°32'30"

CHICAGO MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Drury Township

Latitude	Longitude
46°26'15"	81°27'45"

CREAN HILL MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°25'45"	81°21'00"

ELLEN PIT

Classification

Past producer

Commodities

Ni, Cu, Pt, Co, Au, Ag, Pd, Rh, Ir, Se, Fe, Ru, S

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°26'15"	81°19'15"

TOTTEN MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Fe, Co, Au, Ag, Te, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Drury Township

Latitude	Longitude
46°22'46"	81°27'24"

VERMILION MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°24'56"	81°21'38"

VICTORIA MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°25'45"	81°23'30"

WORTHINGTON (CREAN) MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°23'02"	81°26'52"

LOCKERBY DEPOSIT

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°25'50"	81°19'30"

CLARABELLE PIT

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°29'45"	81°04'30"

COPPER CLIFF MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

McKim Township

Latitude	Longitude
46°28'45"	81°03'50"

COPPER CLIFF NORTH MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, S

Location

NTS 41I/6NE

McKim Township

Latitude	Longitude
46°29'30"	81°04'00"

COPPER CLIFF NO. 1 MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°28'30"	81°04'15"

COPPER CLIFF NO. 2 MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

McKim Township

Latitude	Longitude
46°29'00"	81°04'00"

COPPER CLIFF SOUTH MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°27'30"	81°04'45"

CREIGHTON MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°28'00"	81°11'30"

EVANS MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°27'45"	81°04'25"

GERTRUDE MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Creighton Township

Latitude	Longitude
46°27'45"	81°13'10"

NORTH STAR MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°29'10"	81°10'00"

SNIDER TOWNSHIP DEPOSIT

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°29'30"	81°08'15"

CAPRE PROSPECT

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/10NW

Capreol Township

Latitude	Longitude
46°42'45"	80°50'15"

NICKEL RIM MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru

Location

NTS 41I/10NW

MacLennan Township

Latitude	Longitude
46°38'45"	80°52'15"

VICTOR MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru

Location

NTS 41I/10NW

MacLennan Township

Latitude	Longitude
46°40'45"	80°51'00"

BLEZARD MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Blezard Township

Latitude	Longitude
46°33'30"	80°58'45"

FALCONBRIDGE MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Co, Au, Ag, Pd, Rh, Ir, Se, Fe, Ru, S

Location

NTS 41I/10SW

Falconbridge Township

Latitude	Longitude
46°35'15"	80°47'45"

FALCONBRIDGE EAST MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Co, Au, Ag, Pd, Rh, Ir, Se, Fe, Ru, S

Location

NTS 41I/10SW

Falconbridge Township

Latitude	Longitude
46°35'00"	80°47'00"

GARSON MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Garson Township

Latitude	Longitude
46°34'15"	80°50'15"

KIRKWOOD MINE (McCONNELL MINE)

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Garson Township

Latitude	Longitude
46°34'15"	80°51'30"

NORDUNA MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Co, Au, Ag, Pd, Rh, Ir, Se, Fe, Ru, S

Location

NTS 41I/10SW

Falconbridge Township

Latitude	Longitude
46°36'15"	80°45'50"

SHEPARD PROPERTY

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Blezard Township

Latitude	Longitude
46°34'10"	80°57'00"

STOBIE MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Blezard Township

Latitude	Longitude
46°32'30"	80°59'15"

FALCONBRIDGE TOWNSHIP DEPOSIT

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/10SW

Falconbridge Township

Latitude	Longitude
46°35'45"	80°45'45"

BOUNDARY MINE

Classification

Past producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°38'00"	81°23'15"

COLEMAN MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Ir, Ru, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°40'30"	81°20'15"

FECUNIS MINE (NORTH MINE)

Classification

Past producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°39'30"	81°21'15"

HARDY MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°37'45"	81°24'15"

LEVACK MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°39'00"	81°22'30"

LEVACK WEST PROPERTY

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°38'15"	81°24'00"

LONGVACK SOUTH MINE (LONGVACK MINE)

Classification

Past producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°41'00"	81°21'30"

ONAPING MINE

Classification

Past producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°38'15"	81°23'00"

STRATHCONA MINE

Classification

Producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se, Bi, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°40'45"	81°20'45"

BIG LEVACK PROPERTY

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/11NE

Levack Township

Latitude	Longitude
46°41'00"	81°14'30"

FOY OFFSET PROPERTY

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/11NE

Bowell Township

Latitude	Longitude
46°44'30"	81°08'30"

NORTH RANGE MINE

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/11NE

Wisner Township

Latitude	Longitude
46°44'30"	81°03'15"

ELSIE MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11SE

McKim Township

Latitude	Longitude
46°30'36"	81°04'15"

FROOD MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11SE

McKim Township

Latitude	Longitude
46°31'45"	81°00'24"

LITTLE STOBIE MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11SE

Blezard Township

Latitude	Longitude
46°32'50"	81°00'20"

MCKIM MINE

Classification

Past producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se

Location

NTS 41I/11SE

McKim Township

Latitude	Longitude
46°31'30"	81°03'15"

MURRAY MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11SE

McKim Township

Latitude	Longitude
46°30'50"	81°04'00"

JOE LAKE DEPOSIT

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/14SE

Wisner Township

Latitude	Longitude
46°45'15"	81°02'00"

WHISTLE MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru

Location

NTS 41I/15SW

Norman Township

Latitude	Longitude
46°46'30"	80°52'45"

SILICA

PANACHE LAKE QUARTZ MINE

Classification

Producer

Commodities

Silica

Location

NTS 41I/3NW

Goschen and Truman Townships

Two pits are located at the western end of Lake Panache on the south shore, and one pit is located at the south end of the lake.

Latitude	Longitude
46°13'45"	81°26'45"
46°12'00"	81°15'45"

Remarks

Two pits are located in the southerly dipping Espanola Formation and one is in the mylonitized zone of the Lake Panache Fault. The mylonitized orebody consists of clean quartz with talc lineations and dolomitized zones on the contacts. Vuggy quartz is often associated with the hematized dolomite zones. The dipping beds of the Espanola Formation consist of clean white quartzite with occasional pink plagioclase feldspar. The production from these pits is intermittent and the crushed material is used in precast concrete slabs to provide attractive facings for buildings (M.A. Vos, unpublished notes, 1980).

References

Card (1978, p.211-212)

LAWSON QUARRY

Classification

Producer

Commodities

Silica

Location

NTS 41I/4SE

Curtin Township, lot 13 (formerly Timber Berth II)

Latitude	Longitude
46°07'15"	81°43'45"

Remarks

In 1942, Inco opened this quarry for silica flux for use at the Copper Cliff and Coniston smelters. It is in a horseshoe-shaped belt of Lorrain quartzite which is located immediately south of the axis of the La Cloche syncline. The rock is highly sheared and breaks easily into small fragments. Production amounts to about 2,100 tons per eight-hour shift.

References

Card (1978, p.211)

Hewitt (1963, p.9-10)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Lawson Quarry, Township Curtin, District Sudbury.

NAUGHTON QUARRY

Classification

Past producer

Commodities

Silica

Location

NTS 41I/6NE

Waters Township, lot 8, concession IV, 1-1/2 miles NE of Naughton Station.

Latitude	Longitude
46°25'12"	81°09'28"

Remarks

The occurrence is in an area of Precambrian felsic metavolcanics. Ryholite and quartz-feldspar porphyry are present. In 1907 the Canadian Copper Company operated a quartz mine to use as a flux for smelting and to line the converters. Several million tons were quarried in total.

References

Corkill (1908, p.73)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Naughton, District Sudbury, Township Waters.

Map Reference

ODM Map 2170 (Card 1969)

STONE

BIRCH ISLAND QUARRY

Classification

Past producer

Commodities

Stone

Location

NTS 41I/4SW

Whitefish Indian Reserve No. 4

The operation is situated on the narrows of La Cloche Peninsula

Latitude	Longitude
46°04'20"	81°46'15"

Remarks

Rocks of the Mississagi Formation located in the axial zone of the McGregor Bay Anticline at Birch Island are impure micaceous quartzites with an excellent fracture cleavage. Oriented micas are concentrated along the cleavage planes and so break into sheets easily with shiny surfaces that are generally mottled by iron-staining. The tile yielded is strong and durable, and is used for ceiling, floor and wall tiles, patio and walk flagstones, and architectural panels.

References

Card (1976, p.52,53; 1978, p.212)

SULPHUR

CHICAGO MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Drury Township

Latitude	Longitude
46°26'15"	81°27'45"

CREAN HILL MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°25'45"	81°21'00"

ELLEN PIT

Classification

Past producer

Commodities

Ni, Cu, Pt, Co, Au, Ag, Pd, Rh, Ir, Se, Fe, Ru, S

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°26'15"	81°19'15"

TOTTEN MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Fe, Co, Au, Ag, Te, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Drury Township

Latitude	Longitude
46°22'46"	81°27'24"

VICTORIA MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°25'45"	81°23'30"

WORTHINGTON (CREAN) MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°23'02"	81°26'52"

CLARABELLE PIT

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°29'45"	81°04'30"

COPPER CLIFF MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

McKim Township

Latitude	Longitude
46°28'45"	81°03'50"

COPPER CLIFF NORTH MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, S

Location

NTS 41I/6NE

McKim Township

Latitude	Longitude
46°29'30"	81°04'00"

COPPER CLIFF NO. 1 MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°28'30"	81°04'15"

COPPER CLIFF NO. 2 MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

McKim Township

Latitude	Longitude
46°29'00"	81°04'00"

COPPER CLIFF SOUTH MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°27'30"	81°04'45"

CREIGHTON MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°28'00"	81°11'30"

EVANS MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°27'45"	81°04'25"

GERTRUDE MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Creighton Township

Latitude	Longitude
46°27'45"	81°13'10"

NORTH STAR MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°29'10"	81°10'00"

BLEZARD MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Blezard Township

Latitude	Longitude
46°33'30"	80°58'45"

FALCONBRIDGE MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Co, Au, Ag, Pd, Rh, Ir, Se, Fe, Ru, S

Location

NTS 41I/10SW

Falconbridge Township

Latitude	Longitude
46°35'15"	80°47'45"

FALCONBRIDGE EAST MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Co, Au, Ag, Pd, Rh, Ir, Se, Fe, Ru, S

Location

NTS 41I/10SW

Falconbridge Township

Latitude	Longitude
46°35'00"	80°47'00"

GARSON MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Garson Township

Latitude	Longitude
46°34'15"	80°50'15"

KIRKWOOD MINE (McCONNELL MINE)

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Garson Township

Latitude	Longitude
46°34'15"	80°51'30"

NORDUNA MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Co, Au, Ag, Pd, Rh, Ir, Se, Fe, Ru, S

Location

NTS 41I/10SW

Falconbridge Township

Latitude	Longitude
46°36'15"	80°45'50"

SHEPARD PROPERTY

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Blezard Township

Latitude	Longitude
46°34'10"	80°57'00"

STOBIE MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Blezard Township

Latitude	Longitude
46°32'30"	80°59'15"

BOUNDARY MINE

Classification

Past producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°38'00"	81°23'15"

COLEMAN MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Ir, Ru, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°40'30"	81°20'15"

FECUNIS MINE (NORTH MINE)

Classification

Past producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°39'30"	81°21'15"

HARDY MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°37'45"	81°24'15"

LEVACK MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°39'00"	81°22'30"

LEVACK WEST PROPERTY

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°38'15"	81°24'00"

ONAPING MINE

Classification

Past producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°38'15"	81°23'00"

STRATHCONA MINE

Classification

Producer

Commodities

Ni, Cu, Co, Pt, Rh, Pd, Fe, Au, Ru, Ag, Ir, Se, Bi, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°40'45"	81°20'45"

ELSIE MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11SE McKim Township

Latitude	Longitude
46°30'36"	81°04'15"

FROOD MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11SE

McKim Township

Latitude	Longitude
46°31'45"	81°00'24"

LITTLE STOBIE MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11SE

Blezard Township

Latitude	Longitude
46°32'50"	81°00'20"

MURRAY MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11SE

McKim Township

Latitude	Longitude
46°30'50"	81°04'00"

TALC

LEE VALLEY DEPOSIT

Classification

Minor occurrence

Commodities

Talc

Location

NTS 41I/4NW

May Township

The occurrence is in the southeast corner of the township.

Latitude	Longitude
46°11'33"	81°56'26"

Remarks

Talc occurs in a vein widening from 0.8 m at surface to 3.3 m at 12 m depth. Graphite also occurs in this vein. A 40-foot shaft was sunk in 1896 and was deepened to 50 feet in 1910. The exact location is not known.

References

Hewitt (1972, p.49-50)

Map Reference

ODMNA Map P.702 (Robertson and Siemiatkowska 1971)

TELLURIUM

SULTANA DEPOSIT

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag

Location

NTS 41I/5NE

Trill Township

Latitude	Longitude
46°27'30"	81°30'50"

TRILLABELLE DEPOSIT

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/5NE

Trill Township

Latitude	Longitude
46°29'52"	81°32'30"

CHICAGO MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Drury Township

Latitude	Longitude
46°26'15"	81°27'45"

CREAN HILL MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°25'45"	81°21'00"

TOTTEN MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Fe, Co, Au, Ag, Te, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Drury Township

Latitude	Longitude
46°22'46"	81°27'24"

VERMILION MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°24'56"	81°21'38"

VICTORIA MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/6NW

Denison Township

Latitude	Longitude
46°25'45"	81°23'30"

WORTHINGTON (CREAN) MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location
NTS 41I/6NW
Denison Township
Latitude 46°23'02" Longitude 81°26'52"

LOCKERBY DEPOSIT
Classification
Major occurrence

Commodities
Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru

Location
NTS 41I/6NW
Denison Township
Latitude 46°25'50" Longitude 81°19'30"

CLARABELLE PIT
Classification
Past producer

Commodities
Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location
NTS 41I/6NE
Snider Township
Latitude 46°29'45" Longitude 81°04'30"

COPPER CLIFF MINE
Classification
Past producer

Commodities
Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location
NTS 41I/6NE
McKim Township
Latitude 46°28'45" Longitude 81°03'50"

COPPER CLIFF NORTH MINE
Classification
Past producer

Commodities
Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, S

Location
NTS 41I/6NE
McKim Township
Latitude 46°29'30" Longitude 81°04'00"

COPPER CLIFF NO. 1 MINE
Classification
Past producer

Commodities
Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location
NTS 41I/6NE
Snider Township
Latitude 46°28'30" Longitude 81°04'15"

COPPER CLIFF NO. 2 MINE
Classification
Past producer

Commodities
Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location
NTS 41I/6NE
McKim Township
Latitude 46°29'00" Longitude 81°04'00"

COPPER CLIFF SOUTH MINE
Classification
Producer

Commodities
Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location
NTS 41I/6NE
Snider Township
Latitude 46°27'30" Longitude 81°04'45"

CREIGHTON MINE
Classification
Producer

Commodities
Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location
NTS 41I/6NE
Snider Township
Latitude 46°28'00" Longitude 81°11'30"

EVANS MINE
Classification
Past producer

Commodities
Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location
NTS 41I/6NE
Snider Township
Latitude 46°27'45" Longitude 81°04'25"

GERTRUDE MINE
Classification
Past producer

Commodities
Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location
NTS 41I/6NE
Creighton Township
Latitude 46°27'45" Longitude 81°13'10"

NORTH STAR MINE
Classification
Past producer

Commodities
Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location
NTS 41I/6NE
Snider Township
Latitude 46°29'10" Longitude 81°10'00"

SNIDER TOWNSHIP DEPOSIT
Classification
Major occurrence

Commodities
Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/6NE

Snider Township

Latitude	Longitude
46°29'30"	81°08'15"

CAPRE PROSPECT

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/10NW

Capreol Township

Latitude	Longitude
46°42'45"	80°50'15"

NICKEL RIM MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru

Location

NTS 41I/10NW

MacLennan Township

Latitude	Longitude
46°38'45"	80°52'15"

VICTOR MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru

Location

NTS 41I/10NW

MacLennan Township

Latitude	Longitude
46°40'45"	80°51'00"

BLEZARD MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Blezard Township

Latitude	Longitude
46°33'30"	80°58'45"

GARSON MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Garson Township

Latitude	Longitude
46°34'15"	80°50'15"

KIRKWOOD MINE (MCCONNELL MINE)

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Garson Township

Latitude	Longitude
46°34'15"	80°51'30"

SHEPARD PROPERTY

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Blezard Township

Latitude	Longitude
46°34'10"	80°57'00"

STOBIE MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/10SW

Blezard Township

Latitude	Longitude
46°32'30"	80°59'15"

FALCONBRIDGE TOWNSHIP DEPOSIT

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/10SW

Falconbridge Township

Latitude	Longitude
46°35'45"	80°45'45"

COLEMAN MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Ir, Ru, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°40'30"	81°20'15"

HARDY MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°37'45"	81°24'15"

LEVACK MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°39'00"	81°22'30"

LEVACK WEST PROPERTY

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11NW

Levack Township

Latitude	Longitude
46°38'15"	81°24'00"

BIG LEVACK PROPERTY

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/11NE

Levack Township

Latitude	Longitude
46°41'00"	81°14'30"

FOY OFFSET PROPERTY

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/11NE

Bowell Township

Latitude	Longitude
46°44'30"	81°08'30"

NORTH RANGE MINE

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/11NE

Wisner Township

Latitude	Longitude
46°44'30"	81°03'15"

ELSIE MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11SE

McKim Township

Latitude	Longitude
46°30'36"	81°04'15"

FROOD MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te,Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11SE

McKim Township

Latitude	Longitude
46°31'45"	81°00'24"

LITTLE STOBIE MINE

Classification

Producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11SE

Blezard Township

Latitude	Longitude
46°32'50"	81°00'20"

MURRAY MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru, S

Location

NTS 41I/11SE

McKim Township

Latitude	Longitude
46°30'50"	81°04'00"

JOE LAKE DEPOSIT

Classification

Major occurrence

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe

Location

NTS 41I/14SE

Wisner Township

Latitude	Longitude
46°45'15"	81°02'00"

WHISTLE MINE

Classification

Past producer

Commodities

Ni, Cu, Pt, Se, Te, Co, Au, Ag, Fe, Pd, Rh, Ir, Ru

Location

NTS 41I/15SW

Norman Township

Latitude	Longitude
46°46'30"	80°52'45"

TRAP ROCK

HIGH ISLAND DEPOSIT

Classification

Minor occurrence

Commodities

Trap rock

Location

NTS 41I/4SW

High Island

North Channel of Lake Huron

Latitude	Longitude
46°04'45"	81°58'00"

Remarks

The rocks of the island are largely Middle to Late Precambrian, Nipissing diabase metagabbro. There are three amphibolite intrusions. The amphibolite is a fine grained,

black, equigranular rock composed mainly of hornblende and plagioclase. From 1963 to 1968 three diamond-drill holes totalling 307 feet (93 m) were drilled.

References

Card (1976, p.49)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Sudbury

File High Island, Walter Eves 1968.

VERMICULITE

CARTIER DEPOSIT

Classification

Major occurrence

Commodities

Vermiculite

Location

NTS 41I/12SE

Venturi Township

Two claims (359400, 359393) straddling Tofflemire-Venturi Townships line.

Latitude	Longitude
46°37'30"	81°43'30"

Remarks

Vermiculite occurs in the residual carbonate soil and crumbly metadiorite gravel. Hard, more resistant dikes are generally barren. The geology of the carbonatite complex is speculative because of the abundant overburden. Vermiculite is the most promising mineral found, with an average of 10 percent in the exposed dikes and a high of 47 percent in the localized residual gravels. (M.A. Vos, unpublished notes, 1980).

References

Guillet (1962, p.18-20)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Venturi Township, Technical Survey Files 63.635 and 2.1882.

Map Reference

ODMNA Map 2188 (Card et al. 1971)

NTS 41J BLIND RIVER SHEET

APATITE

SEABROOK LAKE CARBONATITE COMPLEX

Classification

Minor occurrence

Commodities

Niobium, hematite, apatite, cerium, lanthanum, titanium

Location

NTS 41J/14NW

Maeck Township

There are two locations on Seabrook Lake, one on the northwest shore at Centre Bay and one at the south end of Southwest Bay.

Latitude	Longitude
46°59'32"	83°18'31"
46°59'15"	83°19'10"

Remarks

At the first location, a narrow magnetite-rich carbonate zone contained more than 10 percent Nb_2O_5. A carbonate dike at the second location assayed 0.33 percent Nb_2O_5. A concentrate of magnetite crystals contained from 1 to 10 percent titanium and from 0.5 to 5.0 percent niobium.

References

Ferguson (1971, p.31-32)

Parsons (1961)

ASBESTOS

FROBEL LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Copper, asbestos, cobalt, barite, silver

Location

NTS 41J/11SW

Casson Township

Between Snowshoe and Frobel Lakes

Latitude	Longitude
46°36'25"	83°21'40"

Remarks

The occurrence is in an area of Early Precambrian granitic rocks which are intruded by a Nipissing Diabase body. Two faults intersect on the south shore of Frobel Lake. Below the fault zone there is chrysotile asbestos slip fibre and tremolite in widths up to 3/4 inch (20 mm).

References

Siemiatkowska (1977, p.46-48)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Process, Township Casson, District Algoma.

BARITE

FROBEL LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Copper, asbestos, cobalt, barite, silver

Location

NTS 41J/11SW

Listed under ASBESTOS

BISMUTH

WHITE RIVER LEAD DEPOSIT

Classification

Major occurrence

Commodities

Lead, copper, silver, zinc, gold, cobalt, bismuth

Location

NTS 41J/10SW

Albanel Township

2-1/2 miles east of the south end of Endikai Lake.

Latitude	Longitude
46°33'50"	82°59'15"

Remarks

The veins are located in Keweenawan diabase. The main vein was traced for 500 feet on the surface and is mineralized with pyrrhotite, chalcopyrite, and galena in a quartz gangue. An adit 175 feet long with 354 feet of crosscutting was completed, but relatively little economic mineralization was found.

References

Moore (1930, p.15-19)

Shklanka (1969, p.96-97)

Map Reference

OGS Map 2419 (Giblin and Leahy 1979)

HELFRICK DEPOSIT

Classification

Minor occurrence

Commodities

Bismuth, silver, gold, cobalt

Location

NTS 41J/11SW

The property containing the deposit consists of two claims in Otter Township (lots 1 and 2, concession IV), and four claims in Casson Township.

Latitude	Longitude
46°34'00"	83°27'00"

Remarks

There are two quartz-carbonate veins in a Middle Precambrian pluton. The vein system is associated with a diabase sill. Earthy hematite stains the veins in places; chalcopyrite and specularite are present.

References

Chandler (1976, p.33)

KERR CLAIM

Classification

Major occurrence

Commodities

Cobalt, bismuth, nickel, copper

Location

NTS 41J/11SW

Otter Township, SE1/4, S1/2 lot 1, concession IV.

Latitude	Longitude
46°34'30"	83°28'30"

Remarks

The occurrence is in an area of Middle Precambrian Nipissing Diabase. There are two veins which strike northwest. Bismuth, chalcopyrite, niccolite, silver, and cobalt arsenides occur.

References

Burrows (1913, p.196)

Sergiades (1968, p.20)

Map Reference

OGS Map 2419 (Giblin and Leahy 1979)

CERIUM

SEABROOK LAKE CARBONATITE COMPLEX

Classification

Minor occurrence

Commodities

Niobium, hematite, apatite, cerium, lanthanum, titanium

Location

NTS 41J/14NW

Listed under APATITE

COBALT

WHITE RIVER LEAD DEPOSIT

Classification

Major occurrence

Commodities

Lead, copper, silver, zinc, gold, cobalt, bismuth

Location

NTS 41J/10SW

Listed under BISMUTH

FROBEL LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Copper, asbestos, cobalt, barite, silver

Location

NTS 41J/11SW

Listed under ASBESTOS

HELFRICK DEPOSIT

Classification

Minor occurrence

Commodities

Bismuth, silver, gold, cobalt

Location

NTS 41J/11SW

Listed under BISMUTH

KERR CLAIM

Classification

Major occurrence

Commodities

Cobalt, bismuth, nickel, copper

Location

NTS 41J/11SW

Listed under BISMUTH

RENNER DEPOSIT

Classification

Minor occurrence

Commodities

Copper, cobalt

Location

NTS 41J/11SW

Jackson Township

At the eastern end of Triple Isle Lake.

Latitude	Longitude
46°36'30"	83°16'10"

Remarks

Quartz-calcite veins ranging from 1/16 to 2 inches in width occur in sheared metagabbro and granite in a narrow shear zone. The veins carry minor amounts of chalcopyrite, erythrite and hematite.

References

Siemiatkowska (1977, p.49)

HEMATITE

LECARON TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Copper, hematite, magnetite

Location

NTS 41J/11NE

Le Caron Township

Latitude	Longitude
46°39'35"	83°04'50"
46°39'20"	83°04'30"

Remarks

The occurrences are in an area of Middle Precambrian rocks. They belong to the Huronian Supergroup and Cobalt Group, in Lorrain Formation composed of quartzite, arkose, and conglomerate.

References

Giblin and Leahy (1979)

GOULD COPPER MINE DEPOSIT

Classification

Minor occurrence

Commodities

Hematite, chalcopyrite

Location

NTS 41J/11SW

Gould Township, S1/2 lots 10, 11, concession VI.

Latitude	Longitude
46°31'00"	83°26'15"

Remarks

"The Gould Mine adit lies in an east-facing cliff about 25 feet (7.6 m) high consisting of Gowganda paraconglomerate and sandstone. Mineralization occurs in a shear zone that strikes N66W, dips south at 60° and is probably a reverse fault. The shear zone is quartz veined, hematite stained and is 40 feet (12 m) wide...." (Chandler 1976).

References

Chandler (1976)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Sault Ste. Marie

Assessment Files.

ROTHSAY DEPOSIT

Classification

Minor occurrence

Commodities

Copper, hematite

Location

NTS 41J/11SW

Gould Township, lots 4 and 6, concession V.

Latitude	Longitude
46°30'15"	83°23'00"

Remarks

There are three quartz veins cutting Gowganda Formation laminated argillite. The veins contain carbonate patches with blebs and disseminations of chalcopyrite, malachite and specularite.

References

Siemiatkowska (1977, p.49)

WAKOMATA LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Hematite, chalcopyrite

Location

NTS 41J/11SW

Otter and Casson Townships

There are eight occurrences west of Wakomata Lake.

Latitude	Longitude
46°36'15"	83°29'42"
46°35'30"	83°28'55"
46°36'50"	83°28'00"
46°36'55"	83°27'30"
46°34'55"	83°26'25"
46°33'00"	83°25'55"
46°34'40"	83°25'52"
46°35'05"	83°24'50"

Remarks

The occurrences are in an area of Early Precambrian felsic intrusive and metamorphic granites. There are quartz and quartz-carbonate veins present with chalcopyrite and hematite.

References

Chandler (1976)

COPPER QUEEN DEPOSIT

Classification

Major occurrence

Commodities

Copper, hematite

Location

NTS 41J/12SE

Morin Township, lots 3-6, concession IV, at Sheddon Lake.

Latitude	Longitude
46°34'55"	83°37'10"

Remarks

Quartz-chalcopyrite-specularite veins occur in a fault zone which cuts Gowganda conglomerate and Archean granite, and follows the southern border of a diabase dike. Two shafts, several surface pits and diamond drilling were completed between 1904 and 1925.

References

Shklanka (1969, p.46)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Sault Ste. Marie

Report from Algoma Central Railway, 1952.

Map Reference

OGS Map 2419 (Giblin and Leahy 1979)

GREEN LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Hematite

Location

NTS 41J/12SE

Otter Township, lot 4, concession IV. On the southwest shore of Green Lake.

Latitude	Longitude
46°34'50"	83°30'12"

Remarks

The occurrence is in an area of Middle to Late Precambrian mafic intrusive rocks which are predominantly granophyric quartz diabase (Red Rock). There is a quartz vein 5 feet wide. Chalcopyrite and hematite are present.

References

Chandler (1976)

OTTER TOWNSHIP OCCURRENCE

Classification

Minor occurrence

Commodities

Chalcopyrite, hematite

Location

NTS 41J/12SE

Otter Township, lot 4, concession I.

Latitude	Longitude
46°32'40"	83°30'05"

Remarks

There are mafic intrusive rocks containing amphibolite, quartz, chalcopyrite and hematite.

References

Chandler (1976)

SEABROOK LAKE CARBONATITE COMPLEX

Classification

Minor occurrence

Commodities

Niobium, hematite, apatite, cerium, lanthanum, titanium

Location

NTS 41J/14NW

Listed under APATITE

LANTHANUM

SEABROOK LAKE CARBONATITE COMPLEX

Classification

Minor occurrence

Commodities

Niobium, hematite, apatite, cerium, lanthanum, thorium

Location

NTS 41J/14NW

Listed under APATITE

LIMONITE

CASSON TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Copper, limonite

Location

NTS 41J/11SW

Casson Township

East of Snowshoe Creek

Latitude	Longitude
46°33'30"	83°24'20"

Remarks

The Middle Precambrian rocks of the area consist of feldspathic sandstone (arenite). The sandstone is cut by a 36-inch quartz vein; chalcopyrite and limonite are present.

References

Chandler (1976)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

File 63-1949.

MAGNETITE

HARROW TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 41J/1NE

Harrow Township

Latitude	Longitude
46°08'30"	82°01'30"

Map Reference

ODM Map 2108 (Giblin and Leahy 1967)

LECARON TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Copper, hematite, magnetite

Location

NTS 41J/11NE

Listed under HEMATITE

NIOBIUM

SEABROOK LAKE CARBONATITE COMPLEX

Classification

Minor occurrence

Commodities

Niobium, hematite, apatite, cerium, lanthanum, titanium

Location

NTS 41J/14NW

Listed under APATITE

SILICA

BAR RIVER QUARRY

Classification

Past producer

Commodities

Silica

Location

NTS 41J/5NW

Laird Township, lots 2 and 3, concession IV.

Latitude	Longitude
46°26'30"	83°59'55"

Remarks

The quarry is situated on a belt of quartzite which runs from Echo Bay to Thessalon. Greyish white fine-grained sugary quartzite occurs in massive beds up to 4 feet in thickness. The quarry operated from 1941 to 1943.

References

Hewitt (1963, p.8)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Sault Ste. Marie

Bar River Quarry

Map Reference

OGS Map 2419 (Giblin and Leahy 1979)

CAMPEMENT D'OURS ISLAND DEPOSIT

Classification

Major occurrence

Commodities

Silica

Location

NTS 41J/5SW

Campement D'Ours Island

Southwest shore

Latitude	Longitude
46°18'15"	83°57'30"

Remarks

It is estimated that between 800,000 and 2,000,000 tons of high purity silica sand is available but the deposit is considered too small for economic development.

References

Hewitt (1963, p.31-32).

Map Reference

OGS Map 2419 (Giblin and Leahy 1979)

TITANIUM

SEABROOK LAKE CARBONATITE COMPLEX

Classification

Minor occurrence

Commodities

Niobium, hematite, apatite, cerium, lanthanum, titanium

Location

NTS 41J/14NW

Listed under APATITE

TRAP ROCK

FRECHETTE ISLAND DEPOSIT

Classification

Major occurrence

Commodities

Copper, gold, trap rock

Location

NTS 41J/1NW

Frechette Island

North Channel, Lake Huron, northwest of Betty Lake.

Latitude	Longitude
46°07'45"	82°17'00"

Remarks

There is chalcopyrite, pyrrhotite and pyrite in a quartz vein trending N65W, 3 feet by approximately 500 feet, within Nipissing diabase.

References

Shklanka (1969, p.111)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Sudbury

File Poly Ores Mining Co. Ltd., Frechette Island.

Map Reference

ODM Map 2108 (Giblin and Leahy 1967)

GIBRALTER QUARRY

Classification

Major occurrence

Commodities

Trap rock

Location

NTS 41J/1NW

Shedden Township

In the vicinity of Shoepack Bay, west end of Indian Reserve No. 5.

Latitude	Longitude
46°08'35"	82°24'00"

Remarks

The metadiabase and diabase exposed at Shoepack Bay would be suitable for road metal or trap rock, but sufficient markets were not developed and the project is dormant.

References

Robertson (1977, p.62)

The Northern Miner (August 2, 1962, p.6)

Map Reference

OGS Map 2419 (Giblin and Leahy 1979)

HOTHAM ISLAND DEPOSIT

Classification

Major occurrence

Commodities

Copper, trap rock

Location

NTS 41J/1NE

Hotham Island

North Channel, Lake Huron, southeast corner of island.

Latitude	Longitude
46°07'50"	82°13'45"

Remarks

Two quartz veins, bearing chalcopyrite and pyrite, are found in diabase and quartzite. One vein trends northwest for 400 feet and is 2 to 5 feet wide; the second vein trends east for 500 feet and is up to 2 feet wide. The property is inactive.

References

Shklanka (1979, p.111)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Sudbury

File Tough-Showing, Tough Rock Quarries Ltd., Hotham Island.

Map Reference

ODM Map 2108 (Giblin and Leahy 1967)

DOMINION TRAP ROCK QUARRY

Classification

Past producer

Commodities

Trap rock

Location

NTS 41J/5SW

Plummer Additional Township

At Bruce Mines

Latitude	Longitude
46°17'40"	83°46'00"

Remarks

The quarry is in an area of Middle Precambrian diabase which consists of diabase, gabbro, metagabbro and granophyre.

References

Rogers and Young (1930, p.52)

Map Reference

OGS Map 2419 (Giblin and Leahy 1979)

NTS 41K SAULT STE MARIE SHEET

CLAY

ELLIOT'S BRICKYARD

Classification

Past producer

Commodities

Clay

Location

NTS 41K/9SW

Korah Township, Section 25, Claim SSM925

Latitude	Longitude
46°32'40"	84°21'30"

Remarks

The clay was obtained from two pits: in Lake Algonquin clay at the top of the terrace, and 800 feet to the west in Recent clay on the flood plain. The terrace marks the shoreline of an early, high level stage of Lake Superior. Red-brown stratified clays cut into the terrace that was deposited by ancestral Lake Algonquin during the final recession of the glaciers in late Wisconsinan time. There is a furnace and a mill on the property.

References

Guillet (1967, p.146-148)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Sault Ste. Marie

Hough, J.H., Report on Brickyard 1960.

HEMATITE

HAWKSHAW-DERRER DEPOSIT

Classification

Minor occurrence

Commodities

Hematite

Location

NTS 41K/9NE

Deroche Township

Latitude	Longitude
46°43'00"	84°09'00"

Remarks

The occurrence is a hydrothermal deposit in the Superior Geological Province. Specular hematite occurs as enrichments in quartz veins.

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Hawkshaw-Derrer, Township Deroche, District Algoma

Map Reference

OGS Map 2419 (Giblin and Leahy 1979)

KIRBY DEPOSIT

Classification

Minor occurrence

Commodities

Hematite

Location

NTS 41K/9NE

Vankoughnet Township, SW1/4 lot 36

Claims 57555 and 57554

Latitude	Longitude
46°43'00"	84°14'30"

Remarks

The country rock is Huronian quartzite and slate. There are a number of east-southeast-trending hematite-filled veins. Two diamond drill holes totalling 597 feet were completed in 1960.

References

Shklanka (1968, p.39)

Map Reference

OGS Map 2419 (Giblin and Leahy 1979)

MAPLE LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Hematite

Location

NTS 41K/9NE

Vankoughnet and Deroche Townships

In the vicinity of Maple Lake

Latitude	Longitude
46°43'15"	84°12'57"

Remarks

The occurrence is in the Superior Geological Province. Quartz veins, occurring in all rock types in the area, contain specular hematite. The major deposits occur in the Gowganda and Lorrain Formations.

References

Bennett et al. (1975)

Shklanka (1968, p.22)

Map Reference

OGS Map 2419 (Giblin and Leahy 1979)

MASON-WILCOX DEPOSIT

Classification

Minor occurrence

Commodities

Hematite

Location

NTS 41K/9NE

Deroche Township, S1/2 lot 2, concession II, East shore of Northland Lake.

Latitude	Longitude
46°42'30"	84°07'10"

Remarks

The occurrence is a hydrothermal deposit in the Superior Geological Province. The hematite is in pockets which are exposed at the contact of a diabase dike with granite.

References

Sutherland et al. (1923, p.22)

Map Reference

OGS Map 2419 (Giblin and Leahy 1979)

MORAN-FERGUSON DEPOSIT

Classification

Minor occurrence

Commodities

Hematite

Location

NTS 41K/9NE

Deroche Township

East of the Bellevue Fault.

Latitude	Longitude
46°42'40"	84°11'45"

Remarks

The occurrence is a hydrothermal deposit in the Superior Geological Province. Numerous small hematite veins occur in Lorrain quartzite.

References

Hopkins (1922, p.48)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Moran-Ferguson, Township Deroche, District Algoma.

Map Reference

OGS Map 2419 (Giblin and Leahy 1979)

DEROCHE TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Hematite

Location

NTS 41K/9NE

Deroche Township

Latitude	Longitude
46°43'55"	84°10'00"

Remarks

Specular hematite occurs as enrichments in quartz veins.

References

McConnell (1927)

Map Reference

OGS Map 2419 (Giblin and Leahy 1979)

KAOLINITE

SAULT ALGOMA DEPOSIT NOS. 1 AND 4

Classification

Minor occurrence

Commodities

Kaolinite

Location

NTS 41K/15NW

Ryan Township

Near mile 55 on Highway 17.

No. 1

Latitude	Longitude
46°59'25"	84°46'30"

No. 4

46°58'25"	84°45'35"

Remarks

From 1960 to 1963 a large area extending from Sault Ste. Marie to Wawa was mapped and geological data compiled. In particular, altered Keweenawan felsite bodies at Mamainse Pt. were examined.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Sault Ste. Marie

F.R. Joubin and Associates, Sault Algoma No. 1 Project (A.C.R.) Monthly Reports Sept. 1962, April-May 1963.

Map Reference

OGS Map 2419 (Giblin and Leahy 1979)

MANGANESE

BATCHAWANA BAY DEPOSIT

Classification

Minor occurrence

Commodities

Manganese

Location

NTS 41K/16SW

Havilland Township

On the southern point of Batchawana Bay, Lake Superior

Latitude	Longitude
46°50'15"	84°29'30"

Remarks

There is a large vein of manganese ore running north-south which is 50 to 60 feet wide. There is a succession of small knobs that are mixed with reddish trap-like rock and numerous strings of ore associated with quartz and calcic feldspar. The ore was described as manganite or hydrous sesquioxides of manganese, which for manufacturing purposes is inferior to oxide.

References

GSC (1863, p.751)

Map Reference

OGS Map 2419 (Giblin and Leahy 1979)

SILICA

DOMINION MINE

Classification

Past producer

Commodities

Silica

Location

NTS 41K/8SW

Laird Township

On East Neebish Island

Latitude	Longitude
46°20'50"	84°07'00"

Remarks

The deposit is in an area of Middle Precambrian rocks of the Lorrain Formation, Cobalt Group. The rocks consist of quartzite, arkose, and conglomerate. Silica of 98 percent purity was mined from 1916 to 1924.

References

Rogers and Young (1926, p.34)

Map Reference

OGS Map 2419 (Giblin and Leahy 1979)

BELLEVUE DEPOSIT

Classification

Past producer

Commodities

Silica

Location

NTS 41K/9NE

Deroche and Vankoughnet Townships

Located at mile 19.8 on the Algoma Central and Hudson Bay Railway line.

Latitude	Longitude
46°42'45"	84°13'00"

Remarks

A narrow 6-mile long closely-folded syncline of Lorrain quartzite was quarried around 1919 for the manufacture of silica brick.

References

Hewitt (1963, p.8)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Bellevue Township Deroche, District Algoma

Map Reference

OGS Map 2419 (Giblin and Leahy 1979)

NTS 41N MICHIPICOTEN SHEET

HEMATITE

DEVIL'S WAREHOUSE ISLAND DEPOSIT

Classification

Minor occurrence

Commodities

Manganese, hematite

Location

NTS 41N/11SE

Alarie Township

Devil's Warehouse Island, just south of Cape Gargantua

Latitude	Longitude
47°34'00"	85°00'00"

Remarks

Manganite is the only manganese-bearing mineral identified. It is disseminated in and forms lenses in calcite pods. The manganite is fine-grained, locally botryoidal, and associated with and locally appearing to replace hematite. Manganite-hematite lenses are up to 6 feet wide although the average manganite and hematite content is less than 10 percent.

References

Ayres (1969a, p.79-80)

Shklanka (1968, p.30)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Sault Ste. Marie

File Devil's Warehouse Island Manganese Deposit by H.C. Horwood.

JORDAN ISLAND DEPOSIT

Classification

Minor occurrence

Commodities

Manganese, hematite

Location

NTS 41N/11SE

Alarie Township

On Jordan Island and the island south of Jordan Island.

Latitude	Longitude
47°35'00"	85°01'45"
47°34'30"	85°01'30"

Remarks

On Jordan Island the breccia zone contains 20 percent quartz and calcite matrix; the hematite is locally botryoidal and forms lenses up to 6 inches wide. On the other island the breccia matrix is commonly quartz and coarse-grained calcite; within and parallel to the breccia zone are lenses of manganite and hematite up to 1 inch wide.

References

Ayres (1969a, p.80-81)

MAGNETITE

TRIM LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 41N/1NW

Tolmonen Township

1/2 mile southeast of Trim Lake.

Latitude	Longitude
47°09'15"	84°28'30"

Map Reference

ODM Map P.998 (Siragusa 1975b)

WART LAKE DEPOSIT 1

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 41N/1NE

Vibert Township

1/4 mile west of the south arm of Wart Lake.

Latitude	Longitude
47°09'00"	84°09'15"

Map Reference

ODM Map P.1193 (Siragusa 1976)

WART LAKE DEPOSIT 2

Classification

Minor occurrence

Commodities

Magnetite, pyrite

Location

NTS 41N/1NE

Vibert Township

3 miles northwest of Wart Lake.

Latitude	Longitude
47°12'00"	84°13'00"

Map Reference

ODM Map P.1193 (Siragusa 1976)

LYPE LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 41N/15NE

McMurray Township

1/4 mile east of Lype Lake.

Latitude	Longitude
47°57'15"	84°40'50"

Map Reference

ODM Map P.828 (Rupert 1975)

NAVEAU TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Copper, magnetite, sphalerite, garnet

Location

NTS 41N/15NE

Naveau Township

Adjacent to the township line between McMurray and Naveau Townships.

Latitude	Longitude
47°56'00"	84°40'30"

References

Rupert (1975)

MANGANESE

DOUGHTY DEPOSIT

Classification

Minor occurrence

Commodities

Manganese

Location

NTS 41N/2SE

Kincaid Township

In a river bed 1-1/2 miles east of Mica Bay.

Latitude	Longitude
47°07'07"	84°40'00"

Remarks

Manganese-bearing nodules of sand-sized mineral and rock grains are cemented by black fine-grained material. The area is mainly Early Precambrian granite rocks which intrude metavolcanics; there are numerous diabase dikes, probably Lower Keweenawan in age.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Sault Ste. Marie

Report by Peter Giblin.

Map Reference

ODM Map 2251 (Giblin and Armburst 1973)

DEVIL'S WAREHOUSE ISLAND DEPOSIT

Classification

Minor occurrence

Commodities

Manganese, hematite

Location

NTS 41N/11SE

Listed under HEMATITE

JORDAN ISLAND DEPOSIT

Classification

Minor occurrence

Commodities

Manganese, hematite

Location

NTS 41N/11SE

Listed under HEMATITE

NIOBIUM

FIRESAND CARBONATITE COMPLEX

Classification

Major occurrence

Commodities

Niobium

Location

NTS 41N/15NE

McMurray and Lastheels Townships

4-1/2 miles east of Wawa

Latitude	Longitude
47°59'15"	84°40'45"

Remarks

The Firesand complex has a dolomitic carbonatite core with surface dimensions of 3500 by 5400 feet. It is surrounded by a calcitic carbonatite ring with a maximum diameter of 9300 feet. Niobium is present as a minor constituent in alkaline and carbonatite rocks, possibly in the fenitized metavolcanics, and most abundant in calcitic carbonatite. Visually there is little difference between the higher grade sections and the adjacent lower grade material.

References

Ferguson (1971, p.30-31)

Parsons (1961, p.23,32)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Lastheels Township, Technical Survey File 63.675.

POWELLITE

CRANE DEPOSIT (MICHIPICOTEN TUNGSTEN DEPOSIT)

Classification

Minor occurrence

Commodities

Tungsten, molybdenum, powellite

Location

NTS 41N/14NE

Franchere Township

4-1/2 miles east of the mouth of University River, north shore of Lake Superior.

Latitude	Longitude
47°54'40"	85°06'00"

Remarks

A zone of scheelite and molybdenite-bearing quartz veins occurs within a screen of highly deformed and metamorphosed conglomerate. There are three scheelite-bearing zones, the main zone is 30 feet wide and 1300 feet long. The scheelite occurs as grains, crystals, crystal clusters and veinlets.

References

Bennett and Thurston (1977, p.46-47)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Franchere Township, Technical Survey File 63A.154.

PYRITE

WART LAKE DEPOSIT 2

Classification

Minor occurrence

Commodities

Magnetite, pyrite

Location

NTS 41N/1NE

Listed under MAGNETITE

NTS 41O CHAPLEAU SHEET

APATITE

MULTI-MINERALS DEPOSIT

Classification

Major occurrence

Commodities

Niobium, radioactive minerals, apatite, uranium, thorium, iron

Location

NTS 41O/14SE

McNaught Township

Approximately 1/2 mile west of Lackner Lake.

Latitude	Longitude
47°47'18"	83°07'39"

Remarks

The dominant features of this alkalic complex are circular trending and inward dipping zones of mesocratic to melanocratic, foliated rocks (ijolitic, malignitic, syenitic) enclosed in nepheline syenite. The mineralized zones contain magnetite and apatite with minor amounts of pyroxene and pyrochlore. The prospect is an example of the magmatic type of iron deposits.

References

Parsons (1961, p.52,59-69)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File MultiMinerals, Township McNaught, District Sudbury.

ASBESTOS

RUSH LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos, chromite

Location

NTS 41O/16SE

Genoa Township

Northwest corner of township.

Latitude	Longitude
47°50'00"	82°12'00"

Remarks

Small masses of altered peridotite occur in the metavolcanics west of Rush Lake. There are two outcrops. Small veinlets of asbestos fibre traverse the serpentinized portions of the rock, and small quantities of chromite are also present.

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Rush Lake, Township Genoa, District Sudbury.

Map Reference

ODM Map P.137 (Goodwin 1962)

BISMUTH

JONSMITH DEPOSIT

Classification

Major occurrence

Commodities

Molybdenum, bismuth

Location

NTS 41O/16SE

DesRosiers Township

West side of Alike Lake

Latitude	Longitude
47°48'45"	82°03'50"

Remarks

"Molybdenite occurs as grains and aggregates in pegmatite and feldspathic quartz veins, as disseminated grains in sheared volcanics and basic intrusives, and as segregations in granite near granite contacts" (Johnston 1968).

References

Johnston (1968, p.67)

Thurston et al. (1977, p.258-259)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Jonsmith, Township DesRosiers, District of Sudbury.

CHROMITE

RUSH LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos, chromite

Location

NTS 41O/16SE

Listed under ASBESTOS

GRAPHITE

ANACONDA DEPOSIT (MALLARD TOWNSHIP)

Classification

Minor occurrence

Commodities

Zinc, lead, copper, graphite, pyrrhotite

Location

NTS 41O/9NW

Mallard Township

Between Satterly Creek and Opeepeesway River.

Latitude	Longitude
47°41'20"	82°18'00"

Remarks

The occurrence is in an area of Early Precambrian mafic to intermediate metavolcanics. Massive to foliated basalt to andesite flows and porphyritic flows were observed along with sulphide mineralization. In 1963, 11 diamond drill holes totalling 4,101 feet were drilled.

References

Thurston et al. (1977, p.172-173)

FALCONBRIDGE DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, pyrite, pyrrhotite

Location

NTS 41O/9SE

Huffman Township

Just south of the East Arm of Opeepeesway Lake.

Latitude	Longitude
47°35'40"	82°11'00"

Remarks

The occurrence is in an area of Early Precambrian mafic to intermediate metavolcanics. Massive to foliated basalt to andesite flows and porphyritic flows were observed along with sulphide mineralization.

References

Thurston et al. (1977, p.166-167)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Huffman Township, Technical Survey File 63.1260.

MOORE LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Gold, copper, graphite, arsenopyrite, pyrrhotite

Location

NTS 41O/9SE

Yeo Township

Between Moore and Schist Lakes

Latitude	Longitude
47°34'30"	82°00'24"

Remarks

The occurrence is a quartz-carbonate vein in highly carbonatized and pyritized sericite schist derived from sedimentary rocks of the Ridout "Series". Circa 1912 exploration consisted of several test pits and one 30-foot shaft. In 1958, one diamond drill hole was put down to a depth of 184 feet.

References

Shklanka (1969, p.283)

Thurston et al. (1977, p.190-191)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Moore Lake, Township Yeo, District Sudbury.

ANACONDA DEPOSIT (TOOMS TOWNSHIP)

Classification

Minor occurrence

Commodities

Magnetite, pyrrhotite, graphite, copper

Location

NTS 41O/10NW

Tooms Township

1/2 mile east of the Kinagama River.

Latitude	Longitude
47°43'30"	82°56'00"

Remarks

The occurrence is in an area of Early Precambrian mafic to intermediate metavolcanics. Sulphide mineralization occurs locally. In 1960, six diamond drill holes totalling 1,431 feet were drilled.

References

Thurston et al. (1977, p.188-189)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Tooms Township, Technical Survey File 63.1040.

CANADIAN NICKEL COMPANY DEPOSIT (GREENLAW TOWNSHIP)

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 41O/10NW

Greenlaw Township

One occurrence is between Ridout and Hotstone Lakes, and the other is on the southwest shore of Gertrude Lake.

Latitude	Longitude
47°43'40"	82°48'45"
47°45'00"	82°48'00"

Remarks

The occurrences are in an area of Early Precambrian mafic to intermediate metavolcanics consisting of basalt to andesite flows and porphyritic flows (massive to foliated), diorite, and gabbro (coarse-grained flows or intrusions). In 1967, exploration consisted of one diamond-drill hole 199 feet deep.

References

Thurston et al. (1977, p.160-161)

CANADIAN NICKEL COMPANY DEPOSIT (EISENHOWER TOWNSHIP)

Classification

Minor occurrence

Commodities

Graphite, pyrrhotite, pyrite

Location

NTS 41O/10NW

Eisenhower Township

Northeast corner of the township.

Latitude	Longitude
47°39'50"	82°52'20"

Remarks

The occurrence is in an area of Early Precambrian mafic to intermediate metavolcanics, consisting of basalt to andesite flows and porphyritic flows (massive to foliated). Sulphide mineralization has occurred. In 1967, three diamond-drill holes were drilled totalling 545 feet.

References

Thurston et al. (1977, p.158-159)

ALDRA (SOOTHERAN-PAUL) PROSPECT

Classification

Major occurrence

Commodities

Zinc, lead, copper, graphite, galena, chalcopyrite

Location

NTS 41O/10NE

Cunningham Township

East shore of Peter Lake

Latitude	Longitude
47°43'02"	82°39'35"

Remarks

Rocks in the area are synclinally folded within the Superior Structural Province. Most of the area is underlain by basic lavas containing locally thin flows of rhyolite, trachyte and agglomerate. Overlying these rocks is a series of metasediments, chiefly composed of conglomerate, quartzite, and greywacke, with which bodies of chert and cherty iron formation are associated. In 1975, reserves indicated by drilling were 1,000,000 tons open pit and 500,000 tons underground.

References

Meen (1944, p.20-22)

Shklanka (1969, p.237,238)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

SMDR 935, File Sootheran-Paul, Township Cunningham, District of Sudbury.

ANACONDA DEPOSIT (GREENLAW TOWNSHIP)

Classification

Minor occurrence

Commodities

Graphite, magnetite, pyrrhotite, pyrite

Location

NTS 41O/10NE

Greenlaw Township

East shore of the Sultan River

Latitude	Longitude
47°41'10"	82°44'00"

Remarks

The occurrence is in an area of Early Precambrian mafic to intermediate metavolcanics. Sulphide mineralization has occurred. In 1960 geological work and an electromagnetic (ground) survey were done.

References

Thurston et al. (1977, p.160-161)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Greenlaw Township, Technical Survey File 63.1048.

CANADIAN NICKEL COMPANY DEPOSIT (BLAMEY TOWNSHIP)

Classification

Minor occurrence

Commodities

Graphite, pyrrhotite, pyrite

Location

NTS 41O/10NE

Blamey Township

7 miles northeast of Sultan

Latitude	Longitude
47°38'55"	82°38'12"

Remarks

The occurrence is in an area of Early Precambrian mafic to intermediate metavolcanics. Massive to foliated basalt to andesite flows and porphyritic flows are present and sulphide mineralization has occurred. Geological work consisted of one diamond drill hole 146 feet deep done in 1968.

References

Thurston et al. (1977, p.152-153)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Blamey Township, Diamond Drilling Report 10.

CANADIAN NICKEL COMPANY DEPOSIT (CUNNINGHAM TOWNSHIP) (CONSOLIDATED SHUNSBY MINES, EDWARDS LAKE, MINK LAKE, PETER LAKE)

Classification

Minor occurrence

Commodities

Graphite, pyrrhotite, pyrite, sphalerite, iron, lead, copper, zinc, magnetite, chalcopyrite

Location

NTS 41O/10NE

Cunningham Township

Latitude	Longitude
47°41'30"	82°43'50"
47°43'55"	82°41'35"
47°43'30"	82°39'50"
47°43'10"	82°39'40"
47°40'20"	82°37'55"
47°42'35"	82°36'15"

Remarks

Ridout "Series" metasediments consisting of conglomerate, quartzite, iron formation and chert overlie chiefly Keewatin type (Early Precambrian) basic metavolcanics throughout the township. Brecciated chert bands of the Ridout metasediments host the copper-zinc mineralization.

References

Meen (1944)

Thurston et al. (1977, p.154-157)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Cunningham Township, Technical Survey File 63.2919.

TRAVEL LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, pyrrhotite, pyrite

Location

NTS 41O/10NE

Garnet Township

South shore of Travel Lake

Latitude	Longitude
47°42'10"	82°34'30"

Remarks

The occurrence is in an area of Precambrian rocks, mainly Keewatin type basic metavolcanics locally intercalated with narrow bands of rhyolite, trachytes, pyroclastics and metasediments. Overlying the Keewatin are Ridout "Series" metasediments consisting of conglomerate, quartzite, iron formation and chert.

References

Meen (1944)

Thurston et al. (1977, p.158-160)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Garnet Township, Technical Survey File 63.2919.

GARNET TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 41O/10NE

Garnet Township

Latitude	Longitude
47°41'20"	82°33'10"
47°43'30"	82°31'05"
47°43'25"	82°30'30"
47°42'15"	82°30'30"
47°43'10"	82°30'20"

Remarks

The occurrences are in an area of Early Precambrian rocks, mainly Keewatin-type basic metavolcanics locally intercalated with narrow bands of rhyolite, trachyte, pyroclastics and metasediments. Overlying the Keewatin are Ridout "Series" metasediments consisting of conglomerate, quartzite, iron formation and chert.

References

Meen (1944)

Thurston et al. (1977, p.158-160)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Garnet Township, Technical Survey File 63.2919.

CANADIAN NICKEL COMPANY DEPOSIT (LACKNER TOWNSHIP)

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 41O/14SE

Lackner Township

Latitude	Longitude
47°48'05"	83°02'05"

Remarks

The occurrence is in an area of Early Precambrian, Kapuskasing Structural Zone rocks, which consist of pelitic and psammitic granulites (pyroxene-garnet-quartz-feldspar granulite).

References

Thurston et al. (1977, p.170-171)

COPPELL TOWNSHIP (NW) DEPOSIT

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 41O/15NE

Coppell Township

Northwest corner of township.

Latitude	Longitude
47°54'30"	82°35'00"
47°56'25"	82°33'30"

Remarks

The occurrences are in an area of Early Precambrian mafic to intermediate metavolcanics where sulphide mineralization has occurred.

References

Thurston et al. (1977, p.154-155)

GOLDSTAR DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, pyrite

Location

NTS 41O/15SW

Denyes Township

West-central part of the township.

Latitude	Longitude
47°48'25"	82°50'45"

Remarks

The occurrence is in an area of Early Precambrian metavolcanics. Four diamond drill holes totalling 1167 feet exposed minor pyrite mineralization in graphitic schists and iron formation. No mineralization of economic significance was found.

References

Donovan (1968, p.40)

Thurston et al. (1977, p.156-157)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Denyes Township, Technical Survey File 63.1304.

CANADIAN NICKEL COMPANY DEPOSIT (ROLLO TOWNSHIP)

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 41O/15SE

Rollo Township

Southeast corner of township.

Latitude	Longitude
47°50'45"	82°38'50"

Remarks

The occurrence is in an area of Early Precambrian mafic to intermediate metavolcanics. Geological work consisted of one diamond drill hole 433 feet deep, in 1966.

References

Thurston et al. (1977, p.184-185)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Rollo Township, Technical Survey File 2.2145.

CANADIAN NICKEL COMPANY DEPOSIT (SWAYZE TOWNSHIP)

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 41O/15SE

Swayze Township

Southwest corner of township.

Latitude	Longitude
47°45'45"	82°42'55"
47°46'35"	82°36'50"

Remarks

The occurrence is in an area of Early Precambrian mafic to intermediate metavolcanics consisting of massive to foliated basalt to andesite flows and porphyritic flows and mafic pyroclastic rocks.

References

Thurston et al. (1977, p.188-189)

COPPELL TOWNSHIP (SW) DEPOSIT

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 41O/15SE

Coppell Township

Extreme southwest corner of the township

Latitude	Longitude
47°50'40"	82°35'45"

Remarks

The occurrence is in an area of Early Precambrian felsic to intermediate metavolcanics consisting of agglomerate and breccia. Sulphide mineralization is present.

References

Thurston et al. (1977, p.154-155)

HEMATITE

MCCLASKEY DEPOSIT

Classification

Minor occurrence

Commodities

Gold, copper, lead, hematite

Location

NTS 41O/1NE

McPhail Township

On the west shore of Massey Lake, south of Hog Island.

Latitude	Longitude
47°09'45"	82°13'05"

Remarks

The showing is in an area of batholithic granitic rocks of Kenoran age and consists of quartz stockwork in a diabase dike. The quartz stockwork is exposed for a length of 500 feet with a width of 75 to 100 feet and is open at both ends. Mineralization consists of pyrite, chalcopyrite, galena, malachite and specular hematite. Surface work consisted of three small trenches.

References

Rodgers (1962, p.32)

DYMENT LAKE DEPOSIT

Classification

Major occurrence

Commodities

Gold, copper, lead, hematite

Location

NTS 41O/15SW

Denyes Township

1/4 mile south of Dyment Lake.

Latitude	Longitude
47°48'20"	82°47'25"

Remarks

An east-trending belt of Early Precambrian volcanic and sedimentary rocks (Ridout "Series") underlies the area. There is a series of quartz lenses forming an almost continuous vein for 150 feet in a band of schistose quartz porphyry and tuff. There are 10 feet of heavily pyritized and carbonated schist.

References

Donovan (1968, p.40)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Dyment, Township Denyes, District Sudbury.

MAGNETITE

CIPWAY DEPOSIT

Classification

Major occurrence

Commodities

Copper, gold, magnetite, arsenopyrite

Location

NTS 41O/9NW

Osway Township

1/2 mile southwest of Cipway Point, in the northwest arm of Opeepeesway Lake.

Latitude	Longitude
47°38'20"	82°18'15"

Remarks

Sheared and carbonatized mafic metavolcanics are cut by dikes of quartz-feldspar porphyry (Kenoran in age). The mineralized zone is approximately 10 feet wide and at least 60 feet long. Soft "greenstone" and porphyry are variably carbonatized and silicified. Quartz veins, pyrite, pyrrhotite, chalcopyrite and some arsenopyrite are present. In 1945, some trenching and diamond drilling was done.

References

Moorhouse (1951, p.16-18)

Thurston et al. (1977, p.178-179)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Cipway Gold Mines Ltd., Township Osway, District Sudbury.

ANACONDA DEPOSIT (TOOMS TOWNSHIP)

Classification

Minor occurrence

Commodities

Magnetite, pyrrhotite, graphite, copper

Location

NTS 41O/10NW

Listed under GRAPHITE

ANACONDA DEPOSIT (GREENLAW TOWNSHIP)

Classification

Minor occurrence

Commodities

Graphite, magnetite, pyrrhotite, pyrite

Location

NTS 41O/10NE

Listed under GRAPHITE

CANADIAN NICKEL COMPANY DEPOSIT (CUNNINGHAM TOWNSHIP)

Classification

Minor occurrence

Commodities

Graphite, pyrrhotite, pyrite, sphalerite, iron, lead, copper, zinc, magnetite, chalcopyrite

Location

NTS 41O/10NE

Listed under GRAPHITE

BUTLER DEPOSIT (KEEVIL MINING GROUP LTD. PROPERTY 37)

Classification

Minor occurrence

Commodities

Magnetite, pyrite

Location

NTS 41O/15NW

Hellyer Township

1 mile south of Highway 101 north-central part of the township.

Latitude	Longitude
47°59'35"	82°49'45"

Map Reference

ODM Map 2221 (Thurston et al. 1976)

JESSOP PROPERTY

Classification

Minor occurrence

Commodities

Gold, silver, copper, lead, zinc, magnetite

Location

NTS 41O/16SE

Genoa Township

South end of Northcott Bay, Rush Lake.

Latitude	Longitude
47°49'55"	82°08'50"

Map Reference

ODM Map 2221 (Thurston et al. 1976)

ANACONDA DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, magnetite

Location

NTS 41O/16SE

DesRosiers Township

Northwest end of Northpoint Lake.

Latitude	Longitude
47°49'20"	82°06'40"

Map Reference

ODM Map 2221 (Thurston et al. 1976)

NIOBIUM

MULTI-MINERALS DEPOSIT

Classification

Major occurrence

Commodities

Niobium, radioactive minerals, apatite, uranium, thorium, iron

Location

NTS 41O/14SE

Listed under APATITE

PYRITE

KRAM-GLOWACKI DEPOSIT

Classification

Minor occurrence

Commodities

Zinc, uranium, pyrrhotite, pyrite

Location

NTS 41O/6NE

Langlois Township

On the east side of Mississagi Road (Highway 129).

Latitude	Longitude
47°25'10"	83°12'10"

Map Reference

ODM Map 2108 (Giblin and Leahy 1967)

FALCONBRIDGE DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, pyrite, pyrrhotite

Location

NTS 41O/9SE

Listed under GRAPHITE

WAKAMI RIVER DEPOSIT

Classification

Minor occurrence

Commodities

Iron, pyrrhotite, pyrite

Location

NTS 41O/10NW

Greenlaw Township

The property is located just east of the Wakami River where it is joined by the Ridout River.

Latitude	Longitude
47°41'00"	82°47'00"

Map Reference

ODM Map 2221 (Thurston et al. 1976)

CANADIAN NICKEL COMPANY DEPOSIT (EISENHOWER TOWNSHIP)

Classification

Minor occurrence

Commodities

Graphite, pyrrhotite, pyrite

Location

NTS 41O/10NW

Listed under GRAPHITE

ANACONDA DEPOSIT (GREENLAW TOWNSHIP)

Classification

Minor occurrence

Commodities

Graphite, magnetite, pyrrhotite, pyrite

Location

NTS 41O/10NE

Listed under GRAPHITE

CANADIAN NICKEL COMPANY DEPOSIT (BLAMEY TOWNSHIP)

Classification

Minor occurrence

Commodities

Graphite, pyrrhotite, pyrite

Location

NTS 41O/10NE

Listed under GRAPHITE

CANADIAN NICKEL COMPANY DEPOSIT (CUNNINGHAM TOWNSHIP)

Classification

Minor occurrence

Commodities

Graphite, pyrrhotite, pyrite, sphalerite, iron, lead, copper, zinc, magnetite, chalcopyrite

Location

NTS 41O/10NE

Listed under GRAPHITE

TRAVEL LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, pyrrhotite, pyrite

Location

NTS 41O/10NE

Listed under GRAPHITE

BORDEN TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 41O/14NE

Borden Township

South of Highway 101

Latitude	Longitude
47°55'30"	83°07'35"

Map Reference

ODM Map 2221 (Thurston et al. 1976)

CHEWETT TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 41O/14NE

Chewett Township

South of Highway 101

Latitude	Longitude
47°56'15"	83°05'15"

Map Reference

ODM Map 2221 (Thurston et al. 1976)

BORDEN LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 41O/14SW

Cochrane Township

Between Borden Lake and Highway 101.

Latitude	Longitude
47°52'25"	83°17'35"

Map Reference

ODM Map 2221 (Thurston et al. 1976)

BUTLER DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite, pyrite

Location

NTS 41O/15NW

Listed under MAGNETITE

GOLDSTAR DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, pyrite

Location

NTS 41O/15SW

Listed under GRAPHITE

GOWAGAMAK LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Lead, pyrite

Location

NTS 41O/16SW

Heenan Township

Halfway in between Gowagamak Lake and an unnamed lake to the west.

Latitude 47°49'50" Longitude 82°25'45"

Map Reference

ODM Map 2221 (Thurston et al. 1976)

ANACONDA DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, magnetite

Location

NTS 41O/16SE

Listed under MAGNETITE

THORIUM

MULTI-MINERALS DEPOSIT

Classification

Major occurrence

Commodities

Niobium, radioactive minerals, apatite, uranium, thorium, iron

Location

NTS 41O/14SE

Listed under APATITE

NTS 41P GOGAMA SHEET

ASBESTOS

PARTING LAKE DEPOSITS

Classification

Minor occurrence

Commodities

Talc, calcite, pyrite, asbestos

Location

NTS 41P/14NW

Semple Township

Surrounding the small lake in the south-central part of the township.

Latitude	Longitude
47°57'10"	81°16'20"
47°56'30"	81°16'10"
47°57'05"	81°15'45"

Remarks

The property is underlain mainly by a thick formation of massive to pillowed mafic to intermediate metavolcanics containing minor interflow units of intermediate to felsic pyroclastics. The occurrences are on an easterly plunging crescent-shaped differentiated sill east of Parting Lake. There are numerous small lenticular to irregularly shaped bodies of predominantly mafic intrusive rocks. There is little or no cross-fibre asbestos or sulphide mineralization in the numerous outcrops of serpentinized ultramafic rocks.

References

Bright (1978, p.104)

POUNTNEY LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 41P/14NW

Sothman Township

West of Pountney Lake

Latitude	Longitude
47°54'30"	81°15'55"

Remarks

A number of diamond drill holes in serpentinized peridotite and dunite revealed chrysotile asbestos and serpentine. The veinlets are no more than 1/8 inch in width.

References

Abraham (1954, p.23)

TALISMAN DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 41P/14NE

Halliday Township

Northwestern corner of township.

Latitude	Longitude
47°54'35"	81°11'50"

Remarks

The occurrence is in an area of intermediate and mafic metavolcanics consisting of rhyolite-dacite breccia. In 1950, Dominion Gulf Company found some cross-fibre asbestos stringers cutting an ultramafic stock.

References

Bright (1970a, p.21)

UNITED ASBESTOS MINE

Classification

Past producer

Commodities

Asbestos

Location

NTS 41P/14NE

Midlothian Township

North end of Lloyd Lake

Latitude	Longitude
47°52'55"	81°01'00"

Remarks

Asbestos-bearing peridotite of Early Precambrian age intrudes rhyolite which is underlying the property. The peridotite is a "U" shaped deposit with two zones. Cutting the serpentinized ultramafic intrusive rock in the eastern part of the property is asbestos in the form of cross and slip fibre in stringers and veinlets.

References

Bright (1970a, p.16,29)

Vos (1971, p.31)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Asbestos Lloyd, Township of Midlothian, District of Timiskaming.

LLOYD LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 41P/14NE

Midlothian Township

North shore of the west arm of Lloyd Lake.

Latitude	Longitude
47°53'30"	81°01'10"

Remarks

The property is underlain mostly by an ultramafic sill or stock with a dunite-peridotite core surrounded by pyroxenite and gabbro. There is an east-trending shear zone along the north shore of the lake. A cross-fibre asbestos zone is approximately 4,000 feet long and 200 feet wide. Fibre is mainly 1/8 inch long but in some places reaches a length of 1/4 inch.

References

Bright (1970a, p.16,17,29)

Marshall (1947, p.21)

MORGAN DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 41P/15NW

Midlothian Township

Southeast shore of Bray Lake.

Latitude	Longitude
47°53'00"	80°59'50"

Remarks

The sheared country rock is cut by veinlets of serpentine which emanate from a peridotite sill intruding the metavolcanics a short distance north and west of the mineralized zone.

References

Bright (1970a, p.17,20)

RAHN LAKE MINES DEPOSITS

Classification

Major occurrence

Commodities

Asbestos

Location

NTS 41P/15NW

Bannockburn Township

Northwestern corner of township

Latitude	Longitude
47°59'05"	80°54'30"
47°58'45"	80°54'30"

Remarks

The asbestos is found along the north contact of a serpentinized peridotite mass where it cuts across a series of Early Precambrian metasediments and lavas of the Superior structural province.

References

Rickaby (1932, p.12)

Vos (1936, p.49-50)

DEMARCO CLAIMS (SOUTH GROUP)

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 41P/15NE

Cairo Township

1/2 mile southeast of the junction of Highways 65 and 66.

Latitude	Longitude
47°57'05"	80°35'25"

Remarks

A pit was cut into dark-green serpentinite containing asbestos fibres which are coarse and have a maximum length of approximately 1 inch. One-quarter mile southeast is another pit with similar asbestos.

References

Lovell (1967, p.50)

Vos (1971, p.62)

POWELL TOWNSHIP (CENTRAL) DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 41P/15NE

Powell Township

Central part of the township.

Latitude	Longitude
47°58'30"	80°44'55"

Remarks

The occurrence is in an area of Early Precambrian ultramafic and mafic intrusive rocks (Haileyburian). Serpentinite is present.

References

Lovell (1966a)

POWELL TOWNSHIP (EAST-CENTRAL) DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 41P/15NE

Powell Township

East-central part of the township.

Latitude	Longitude
47°58'35"	80°40'10"

Remarks

The occurrence is in an area of ultramafic and mafic intrusive rocks (Haileyburian). Serpentinite is present.

References

Lovell (1966a)

BARITE

EBY CLAIM (SCOTT CLAIM)

Classification

Minor occurrence

Commodities

Barite

Location

NTS 41P/10NE

Lawson Township

1/2 mile south of Highway 560.

Latitude	Longitude
47°39'15"	80°33'30"

Remarks

There is an irregular lens of barite, 60 feet long by 8 feet wide, which strikes N75E and dips vertically. The lens cuts into medium to coarse grained Nipissing diabase. The walls are vuggy, corroded and irregular.

References

Guillet (1963, p.19-21)

MacKean (1968a, p.40-41)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Eby, Township Lawson, District Timiskaming.

MARTIN LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Barite

Location

NTS 41P/10NE

Lawson Township

1/4 mile north of Martin Lake.

Latitude	Longitude
47°38'25"	80°38'45"

Remarks

The occurrence is in an area of Middle Precambrian rocks, belonging to the Cobalt Group, in a banded siltstone member of the Gowganda Formation.

References

MacKean (1968b)

EXTENDER MINERALS OF CANADA MINE

Classification

Producer

Commodities

Barite

Location

NTS 41P/15NW

Yarrow Township

Along the west side of Mistinikon Lake.

Latitude	Longitude
47°54'15"	80°46'00"

Remarks

The property is underlain by interbedded greywacke-conglomerate and arkose of the Cobalt Group which dip gently eastward. Veins are in steeply dipping fractures cutting the sedimentary rocks in a direction parallel to the main joint system (N73W). The vein material is predominantly barite containing some strontium and calcium sulphates and traces of calcite, quartz, and finely disseminated hematite. The barite is commonly coarsely spathic but locally is finer grained and in some places dense and compact with a few interspersed large crystals.

References

Burrows (1918, p.238)

Guillet (1963, p.13,14,21-24)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Ontario Barium, Township Yarrow, District Timiskaming.

BISMUTH

MAPES JOHNSTON SHAFT

Classification

Major occurrence

Commodities

Silver, cobalt, nickel, bismuth

Location

NTS 41P/9NW

Mickle Township

Northwest of Silverclaim Lake.

Latitude	Longitude
47°44'20"	80°26'10"

Remarks

The occurrence is in an area of Nipissing Diabase, and the claim is underlain mainly by olivine-hypersthene diabase. At the 200-foot level in an exploration shaft there are several occurrences of nickel-cobalt-sulph-arsenide-arsenide mineralization. Native bismuth was also observed.

References

MacKean (1968a, p.42-43)

Tower et al. (1942, p.164)

BRETT LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Bismuth, silver, cobalt

Location

NTS 41P/10NW

Van Hise Township

East of Brett Lake (800 feet).

Latitude	Longitude
47°40'50"	80°50'30"

Remarks

There is an exploration pit on the north edge of a Gowganda Formation conglomerate near a diabase contact. The vein system is composed of numerous quartz-carbonate veinlets and mineralization consists of native bismuth, and erythrite with minor pyrite, chalcopyrite and cobalt arsenides.

References

McIlwaine (1978, p.58-59)

NELLIE LAKE SYNDICATE

Classification

Minor occurrence

Commodities

Cobalt, nickel, bismuth

Location

NTS 41P/11SE

Leonard Township

Approximately 1/2 mile south of Taylor Lake.

Latitude	Longitude
47°32'45"	81°01'55"

Remarks

The claims are mainly underlain by diabase, but some of the area is underlain by Keewatin (Early Precambrian) rocks. A vein with an average width of 2 feet was located. The gangue material is calcite, but cobalt bloom, smaltite, niccolite and bismuth are present in small quantities. The vein has a vertical dip and strikes generally at N25E.

References

Carter (1977b, p.41-42,45)

Langford (1927, p.97)

THREE DUCK LAKES DEPOSIT

Classification

Minor occurrence

Commodities

Gold, copper, bismuth

Location

NTS 41P/12SW

Chester Township

Approximately 130 feet east of Cote Lake.

Latitude	Longitude
47°33'45"	81°51'50"

Remarks

A lenticular body follows an east-trending fracture zone. The lens consists of mineralized quartz and highly altered country rock, in which sulphide replacement has been extensive.

References

Laird (1932, p.28-30)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Three Ducks, Township Chester, District of Sudbury.

CALCITE

MUNRO LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Silver, cobalt, copper, calcite

Location

NTS 41P/9SE

Speight Township

600 feet south of Munro Lake.

Latitude	Longitude
47°33'00"	80°12'00"

Remarks

The property straddles the northeast-trending rim of the Philbrick Lake gabbro basin. A calcite vein strikes N35E, dips 75°NW, and is 2 to 4 inches in width. Chalcopyrite and pyrite were noticed in the vein.

References

Card et al. (1973, p.79-80)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Castlebar Silver and Cobalt Mines Ltd., Township Speight, District Timiskaming.

GOWGANDA LAKE PROPERTY

Classification

Minor occurrence

Commodities

Silver, cobalt, calcite, specularite

Location

NTS 41P/10NW

Milner Township

On the west shore of the north arm of Gowganda Lake.

Latitude	Longitude
47°40'00"	80°47'59"

Remarks

The occurrence is in an area of Nipissing Diabase (a quartz diabase sill, fine to medium grained). Grey and pink calcite with some specularite was observed in dump. There are trace amounts of silver, cobalt, nickel and copper.

References

McIlwaine (1978, p.82)

GOWGANDA SILVER MINES (BLOOM LAKE GROUP)

Classification

Minor occurrence

Commodities

Calcite, erythrite

Location

NTS 41P/10NE

Haultain Township

The claim group straddles Bloom Lake.

Latitude	Longitude
47°44'59"	80°40'30"

Remarks

Argillite and siltstone of the Gowganda Formation nonconformably overlie a narrow strip of Early Precambrian quartz diorite which runs along the east shore of Bloom Lake. Nipissing Diabase intrudes these older rocks. The diabase is coarse to medium grained, dips to the east, and has been sheared; brecciated pieces of diabase were observed in the vein. Erythrite and cobalt-nickel arsenides were reported to be present.

References

McIlwaine (1975, p.95)

MURKY FAULT DEPOSITS

Classification

Minor occurrence

Commodities

Magnetite, copper, gold, calcite

Location

NTS 41P/11SW

Connaught Township

About 1/4 mile northeast of Burns Lake.

Latitude	Longitude
47°35'40"	81°23'15"
47°35'50"	81°23'00"

Remarks

The property is underlain by Early Precambrian intermediate metavolcanics cut by a northwesterly trending diabase dike. A self-potential survey revealed two strong anomalies which could be a result of either veins or dissemination of sulphides, or graphitic material.

References

Carter (1977a, p.79-80)

PARTING LAKE DEPOSITS

Classification

Minor occurrence

Commodities

Talc, calcite, pyrite, asbestos

Location

NTS 41P/14NW

Listed under ASBESTOS

SILVERCLAIM LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Copper, specularite, calcite

Location

NTS 41P/16SW

Mickle Township

Northwest of Silverclaim Lake.

Latitude	Longitude
47°47'00"	80°25'55"

Remarks

The occurrence is in an area of Nipissing diabase, locally mainly olivine-hypersthene diabase. At the 65-foot level in the exploration shaft, a calcite vein with well-crystallized native silver and smal-

tite mineralization was observed. The carbonate vein is 1 to 6 inches wide. There is also a 12-inch aplite dike near this location.

References

MacKean (1968a, p.42-43)

Tower et al. (1942, p.164)

COBALT

MAPES JOHNSTON SHAFT

Classification

Major occurrence

Commodities

Silver, cobalt, nickel, bismuth

Location

NTS 41P/9NW

Listed under BISMUTH

MUNRO LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Silver, cobalt, copper, calcite

Location

NTS 41P/9SE

Listed under CALCITE

BRETT LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Bismuth, silver, cobalt

Location

NTS 41P/10NW

Listed under BISMUTH

GOWGANDA LAKE PROPERTY

Classification

Minor occurrence

Commodities

Silver, cobalt, calcite, specularite

Location

NTS 41P/10NW

Listed under CALCITE

DUNCAN LAKE DEPOSITS

Classification

Minor occurrence

Commodities

Gold, copper, cobalt, hematite

Location

NTS 41P/10NW

Knight Township

West of Duncan Lake.

Latitude	Longitude
47°44'45"	80°57'55"
47°44'20"	80°56'10"

Remarks

The occurrences are in a Keweenawan (Late Precambrian) quartz diabase sill. The veins are coarsely crystalline white and pink calcite and comb quartz. There is native silver, niccolite, smaltite, chalcopyrite, bismuth, and specular hematite mineralization.

References

Graham (1932, p.49)

NELLIE LAKE SYNDICATE

Classification

Minor occurrence

Commodities

Cobalt, nickel, bismuth

Location

NTS 41P/11SE

Listed under BISMUTH

GRAPHITE

TYRRELL TOWNSHIP (NORTHWEST) DEPOSIT

Classification

Minor occurrence

Commodities

Gold, molybdenum, chalcopyrite, graphite

Location

NTS 41P/11NE

Tyrrell Township

Northwest corner of the township.

Latitude	Longitude
47°39'15"	81°03'45"

Remarks

There is a mineralized shear zone within an area of mainly felsic metavolcanics. The shear zone has numerous parallel and intersecting veinlets of quartz with a strike of N20W and a vertical dip. The metavolcanics in the shear zone were altered to chlorite-graphite schist which has been partially replaced by disseminated grains and cubes of pyrite.

References

Carter (1977c, p.49-50)

Graham (1932, p.58)

LAROMA MIDLOTHIAN DEPOSIT

Classification

Minor occurrence

Commodities

Marcasite, graphite

Location

NTS 41P/14NE

Midlothian Township

Between Mitre and Midlothian Lakes.

Latitude	Longitude
47°54'00"	81°00'20"

Remarks

Gold-bearing quartz veins are found in a zone of green carbonate rock along a steeply dipping metavolcanic-metasedimentary contact. The green carbonate also contains irregular lenses of fine-grained green dolomite, talc-carbonate rock and serpentinite. Drill holes along the metavolcanic-metasedimentary contact northwest of the green carbonate zone revealed zones of disseminated to massive graphite, pyrite and marcasite.

References

Bright (1970a, p.22)

HALLIDAY TOWNSHIP (NORTH) DEPOSIT

Classification

Minor occurrence

Commodities

Marcasite, graphite

Location

NTS 41P/14NE

Halliday Township

On the northern boundary of the township.

Latitude	Longitude
47°55'45"	81°10'00"

Remarks

A marcasite-graphite vein approximately 1/2 mile in length is found cutting intermediate to mafic metavolcanics. The vein lies underneath two lakes.

References

Bright (1970b)

HEMATITE

DUNCAN LAKE DEPOSITS

Classification

Minor occurrence

Commodities

Gold, copper, cobalt, hematite

Location

NTS 41P/10NW

Listed under COBALT

SUNISLOE DEPOSIT

Classification

Minor occurrence

Commodities

Copper, gold, hematite

Location

NTS 41P/15NE

Cairo Township

South of the eastern bend of the Montreal River.

Latitude	Longitude
47°55'55"	80°37'45"

Remarks

Sheared mafic intrusive rocks have been intruded by a boss of massive granitic rocks about 600 feet in diameter. Small amounts of chalcopyrite are in the boss close to the contact with sheared diorite and serpentinite. Quartz-carbonate stringers cutting the diorite and serpentinite contain chalcopyrite, hematite and magnetite.

References

Lovell (1967, p.49)

MAGNETITE

CONNAUGHT TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Copper, magnetite

Location

NTS 41P/11NW

Connaught Township

Latitude	Longitude
47°39'45"	81°24'10"

References

Carter (1977a)

MURKY FAULT DEPOSITS

Classification

Minor occurrence

Commodities

Magnetite, copper, gold, calcite

Location

NTS 41P/11SW

Listed under CALCITE

PYRITE

CONNAUGHT TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Copper, pyrrhotite, pyrite

Location

NTS 41P/11NW

Connaught Township

Latitude	Longitude
47°38'50"	81°22'00"

References

Carter (1977a)

TYRRELL TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 41P/11NE

Tyrrell Township

Latitude	Longitude
47°38'20"	81°00'25"

References

Carter (1977c)

PARTING LAKE DEPOSITS

Classification

Minor occurrence

Commodities

Talc, calcite, pyrite, asbestos

Location

NTS 41P/14NW

Listed under ASBESTOS

SEMPLE TOWNSHIP DEPOSIT 1

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 41P/14NW

Semple Township

Latitude	Longitude
47°57'35"	81°16'30"

References

Graham (1932)

SEMPLE TOWNSHIP DEPOSIT 2

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 41P/14NE

Semple Township

Latitude	Longitude
47°57'15"	81°12'45"

References

Graham (1932)

MIDLOTHIAN TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, chalcopyrite

Location

NTS 41P/15NW

Midlothian Township

Latitude	Longitude
47°53'10"	80°59'05"

References

Bright (1970a)

TALC

PARTING LAKE DEPOSITS

Classification

Minor occurrence

Commodities

Talc, calcite, pyrite, asbestos

Location

NTS 41P/14NW

Listed under ASBESTOS

TIN

REDORE DEPOSIT

Classification

Major occurrence

Commodities

Tin

Location

NTS 41P/13SW

Wigle Township

The occurrence straddles the boundary between Wigle and Whalen Townships.

Latitude	Longitude
47°50'40"	81°51'45"

Remarks

Columbite-tantalite mineralization is found in granite pegmatite. Cassiterite was also reported. In 1940, some surficial work was done by Redore Mining Company Limited.

References

Ferguson (1971, p.53)

Hewitt (1967a, p.68,70)

Map Reference

ODM Map P.151 (Savage and Fenwick 1962)

NTS 42A TIMMINS SHEET

ASBESTOS

ABITIBI DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/3NW

McArthur Township

1/8 mile east of Serpentine Mountain.

Latitude	Longitude
48°12'42"	81°16'30"

Remarks

The occurrence is found in an area underlain by two rock types: ultramafic metavolcanics (serpentinized dunite and peridotitic flows) and intermediate and mafic metavolcanics (mafic flows and pyroclastic rocks). The rock types are Early Precambrian in age.

References

Pyke (1978a, p.34-40)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

Assessment Files, McArthur Township, T-1609, Report No. 2-1342, Claim No. P.344473, and T-1273, Report No. 63-1899, Claim No. P.79192, and T-526, Claim No. 43755.

Map Reference

ODM Map 2205 (Pyke et al. 1973)

CONSOLIDATED CANORAMA DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/3NW

McArthur Township

Northeast shore of McArthur Lake.

Latitude	Longitude
48°13'45"	81°16'30"

Remarks

The occurrence is in an area of Early Precambrian ultramafic metavolcanics, consisting of serpentinized dunite and peridotitic flows.

References

Pyke (1978b, p.7-8)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

Assessment File Report T-1122, Claim P.80080.

Map Reference

ODM Map 2205 (Pyke et al. 1973)

HOLLINGER CONSOLIDATED DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/3NW

Fripp Township

1/4 mile south of Bruce Lake.

Latitude	Longitude
48°12'25"	81°23'58"

Remarks

The occurrence is in an area of Early Precambrian metamorphosed ultramafic rocks consisting of peridotite, dunite, pyroxenite, and serpentinite.

References

Pyke (1978b, p.7)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

Assessment File Report T-702, Claim P.78050.

Map Reference

ODM Map 2205 (Pyke et al. 1973)

GEIKIE LAKE DEPOSITS

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/3NE

Geikie Township

West of Geikie Lake.

Latitude	Longitude
48°10'07"	81°10'50"
48°10'30"	81°10'55"

Remarks

These occurrences are found in Early Precambrian ultramafic rocks. There are minor asbestos seams locally. In this outcrop area, twelve 1 mm wide seams were counted over a width of 0.3 m. This constitutes 5 to 10 percent of the total outcrop area.

References

Bruce (1927, p.44)

Pyke (1978a, p.46)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

Assessment File Reports T-662 (claim P.42988), and T-463 (claim 36039).

Map Reference

ODM Map 2205 (Pyke et al. 1973)

LUKE LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/3SE

Hutt Township

East of Luke Lake.

Latitude	Longitude
48°00'54"	81°07'34"

Remarks

Minor showings of cross-fibre asbestos occur locally in the ultramafic rocks east and southeast of Luke Lake.

References

Bright (1978, p.69)

Map Reference

ODM Map P.491 (Bright 1968c)

MORAY LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/3SE

Zavitz Township

In the area of Moray Lake.

Latitude	Longitude
48°01'17"	81°05'48"
48°01'30"	81°05'04"

Remarks

The occurrences are in an area of serpentinized ultramafic rocks. There are minor asbestos seams locally in the ultramafic rocks throughout the area, but never in any great densities.

References

Bright (1978, p.93-94)

Pyke (1978b, p.46)

Map Reference

ODM Map P.455 (Bright 1968b)

KENOGAMING TOWNSHIP DEPOSITS

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/4NW

Kenogaming Township

Latitude	Longitude
48°08'13"	81°59'07"
48°09'05"	81°58'12"
48°09'18"	81°57'54"
48°08'44"	81°57'19"
48°10'36"	81°56'35"
48°11'15"	81°55'07"

Remarks

Within the serpentine rocks of the area, pale amber chrysotile asbestos of high quality has been found. The exposed fibre is in areas of small lateral extent, it occurs in narrow widths and the fibres are short.

References

Milne (1972a, p.82-83)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

Assessment File T-527.

Map Reference

ODM Map P.465 (Milne 1968a)

CARSCALLEN TOWNSHIP (SOUTH-CENTRAL) DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/5NE

Carscallen Township

South-central part of township.

Latitude	Longitude
48°22'37"	81°38'50"

Remarks

The occurrence is in an area of Early Precambrian intermediate and mafic metavolcanics.

References

Pyke et al. (1973)

Map Reference

ODM Map P.23 (Ferguson 1959a)

BOWMAN MINE (NAKHODAS MINING COMPANY)

Classification

Past producer

Commodities

Asbestos

Location

NTS 42A/6NW

Deloro Township

East of MacKay Lake.

Latitude	Longitude
48°24'20"	81°16'00"

Remarks

The property is underlain by a large mass of serpentinite with some areas containing cross-fibre veinlets of chrysotile. This area was mined for three years, 1923 to 1926.

References

Carlson (1967, p.98-100)

Vos (1971, p.42)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

Assessment File Report T-349.

Map Reference

ODM Map 2205 (Pyke et al. 1973)

ASBESTOS CORPORATION DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/6NE

Shaw Township

1-1/2 miles north of Shaw Creek.

Latitude	Longitude
48°25'25"	81°12'15"

Remarks

With the exception of a few diabase dikes, the bedrock in the area is of Early Precambrian age, and consists of serpentinite and talc-chlorite schist. Narrow veinlets of asbestos are in both the intrusive and extrusive ultramafic rocks, but are usually developed best in the former.

References

Carlson (1967, p.107)

Pyke (1973, p.129,131)

Map Reference

ODM Map 2205 (Pyke et al. 1973)

MCWATTERS DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/6NE

Carman Township

3 miles west of Carman Bay, Night Hawk Lake.

Latitude	Longitude
48°23'02"	81°02'50"

Remarks

The occurrence is in an area of Early Precambrian metamorphosed ultramafic rocks (peridotite, dunite, pyroxenite, serpentinite).

References

Leahy (1971, p.60)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

File Carman Township, Diamond Drill Report 13.

Map Reference

ODM Map P.356 (Leahy 1969)

MENORAH DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/6NE

Carman Township

3-1/2 miles northwest of Carman Bay, Night Hawk Lake.

Latitude	Longitude
48°24'30"	81°03'15"

Remarks

The area is underlain by Keewatin (Early Precambrian) metavolcanics and iron formation which are intruded by a quartz-feldspar porphyry, probably Algoman in age. The occurrence is found at the contact between two rock types: metamorphosed ultramafic rocks (peridotite, dunite, pyroxenite, serpentinite), and felsic metavolcanic flows.

References

Leahy (1971)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Carman Township, Technical Survey File 63.2829.

Map Reference

ODM Map P.356 (Leahy 1969)

SPARTON MINE

Classification

Past producer

Commodities

Asbestos

Location

NTS 42A/6NE

Deloro Township

Southeastern portion of the township.

Latitude	Longitude
48°24'25"	81°13'30"

Remarks

The property is underlain by a large mass of serpentinite which is thought to be an offshoot of a larger body of ultramafic rock 1 mile to the southwest. Chrysotile asbestos was found in cross-fibre veinlets up to 1-1/2 inches in width. Narrow dikes of syenite cut the serpentinite and in some places there is considerable talc-carbonate alteration.

References

Carlson (1967)

Vos (1971, p.43)

Map Reference

ODM Map 2205 (Pyke et al. 1973)

VENTURES CLAIM

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/6NE

Carman Township

On the Redstone River.

Latitude	Longitude
48°24'08"	81°04'15"

Remarks

The area is underlain by Keewatin (Early Precambrian) metavolcanics and iron formation which are intruded by a quartz-feldspar porphyry, probably Algoman in age. Overburden covers the area.

References

Leahy (1971, p.62)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Carman Township, Diamond Drill Report No. 10.

Map Reference

ODM Map P.356 (Leahy 1969)

GALATA DEPOSITS

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/6SE

Langmuir Township

Near the west-central boundary of the township.

Latitude	Longitude
48°19'20"	81°04'45"
48°19'07"	81°03'52"

Remarks

The occurrence is in an area which is underlain mainly by felsic metavolcanics and serpentinite, and the southern part of a trondhjemite body. The gossan zone extends approximately 18 to 24 inches into the serpentinite, where the dominant mineralization is magnetite. Two pits were blasted into the serpentinite; the larger contains numerous narrow seams of fibrous asbestos up to 0.10 inch in length.

References

Pyke (1970, p.38-40)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Langmuir Township, Technical Survey File 63.2716.

Resident Geologist's Files, Timmins

Assessment File Reports T-1387 and T-1016.

Map Reference

ODM Map P.444 (Pyke 1968)

MESPI DEPOSITS

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/6SE

Carman-Langmuir Townships

The property straddles the township line; two claims are in Langmuir Township and four are in Carman Township.

Latitude	Longitude
48°22'00"	81°01'10"
48°21'15"	81°03'35"
48°22'20"	81°01'25"

Remarks

Work done on the claims by Dominion Gulf Company in 1951 outlined a zone about 200 feet wide of serpentinized mafic rock carrying a variable asbestos content. Asbestos veinlets varying from 1/16 to 1/4 inch in width are confined to northwesterly trending fractures in the rock which in this zone is fairly well fractured. There are no asbestos fibres in the flat lying fractures.

References

Leahy (1971, p.40)

Pyke (1970, p.51-52)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

Assessment File T-480.

FORKS RIVER DEPOSITS

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/6SE

Langmuir Township

Southwestern portion of the township, 1 mile south of the Forks River.

Latitude	Longitude
48°17'00"	81°02'35"
48°16'50"	81°02'30"

Remarks

These occurrences are in an area where the rocks are serpentinized and, locally, carbonatized peridotite-pyroxenite which is intruded by fine- to medium-grained granite and granite porphyry and diabase dikes. The diabase contains narrow veinlets of asbestos in some areas.

References

Pyke (1970, p.33)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Langmuir Township, Technical Survey Files 63.1044 and 2.659.

Resident Geologist's Files, Timmins

Assessment File Reports T-1250 and T-1386.

Map Reference

ODM Map P.444 (Pyke 1968)

DOMINION GULF DEPOSITS

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/7SW

Langmuir Township

East side of Night Hawk River.

Latitude	Longitude
48°17'38"	80°59'05"
48°17'45"	80°58'35"

Remarks

The occurrences are in an area of Early Precambrian ultramafic metavolcanics. In serpentinized flows minor amounts of asbestos fibres up to 1/4 inch in length were found.

References

Pyke (1970, p.37)

Map Reference

ODM Map P.444 (Pyke 1968)

LAMOTTE GROUP

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/7SW

Langmuir Township

Middle of the southern boundary.

Latitude	Longitude
48°16'45"	81°00'00"

Remarks

The occurrence is in an area of Early Precambrian ultramafic and mafic intrusive rocks. Some short holes indicated asbestos in veins up to 1/8 inch wide while other holes intersected fibre-bearing serpentinized peridotite with fibre veins up to 3/16 inch wide.

References

Vos (1971, p.62)

Map Reference

ODM Map 2205 (Pyke et al. 1973)

ODM Map P.444 Pyke (1968)

OLE HAGEN DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/8SW

Benoit Township, S1/2 lot 11, concession III.

Latitude	Longitude
48°18'18"	80°15'25"

Remarks

The occurrence is in an area of Early Precambrian mafic and ultramafic intrusive rocks consisting mainly of serpentinite and peridotite. Three holes, drilled in 1951, intersected asbestos veinlets containing short cross-fibre chrysotile.

References

Lovell (1971, p.19)

Map Reference

OGS Map P.873 (Lovell et al. 1978)

DAVIDOR DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/8SE

Benoit Township, N1/2 lot 8, concession II.

Latitude	Longitude
48°18'08"	80°13'48"

Remarks

The occurrence is in an area of Early Precambrian mafic and ultramafic intrusive rocks, consisting mainly of serpentinite and peridotite.

References

Lovell (1971)

Map Reference

OGS Map P.873 (Lovell et al. 1978)

AREA DEPOSITS

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/9NE

Kerrs Township, lots 1 and 2, concessions II and III.

Latitude	Longitude
48°44'40"	80°08'35"
48°45'00"	80°07'10"

Remarks

The occurrences are in an area of Early Precambrian ultramafic rocks. Five diamond drill holes revealed serpentinized peridotite with chrysotile fibre veins up to 3/8 inch wide.

References

Simony (1965, p.22-23)

Vos (1971, p.61)

Map Reference

ODMNA Map P.773 (Lovell 1972b)

HEDMAN MINE

Classification

Producer

Commodities

Asbestos

Location

NTS 42A/9NE

Warden Township

Open-pit mine is in lot 5 or 6, concession I.

Latitude	Longitude
48°37'40"	80°12'45"

Remarks

Asbestos showings on the Hedman property occur in east-striking sills of mafic to ultramafic rock within a series of mafic volcanic rocks dipping south at approximately 80 degrees. A 500-foot wide zone of "brown weathering serpentine" carries veinlets of chrysotile asbestos over a width of 200 feet. A parallel 500-foot wide zone of differentiated ultramafic rock, separated by mafic lavas, occurs to the north of this serpentinized peridotite. In the latter zone dark green to black serpentinized dunite and peridotite near the edges grade into a core of medium green, granular serpentinized dunite, referred to as the "white weathering serpentine". This "white weathering serpentine" carries the more important asbestos showings on the property (Vos 1971).

References

Vos (1971, p.51)

Map Reference

ODMNA Map P.775 (Lovell 1972c)

CANADIAN JOHNS-MANVILLE DEPOSIT (BIRD DEPOSIT)

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/9NE

Warden Township, lot 6, concession I

Latitude	Longitude
48°37'30"	80°11'17"

Remarks

Veinlets with short-fibre asbestos occur in a serpentinized peridotite sill.

References

Vos (1971, p.30)

Map Reference

ODM Map P.140 (Ginn and Fenwick 1962)

CANADIAN JOHNS-MANVILLE DEPOSIT (STAIRS GROUP)

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/9NE

Warden Township, lots 9-12 concession I

Latitude	Longitude
48°37'48	80°14'30

Remarks

Short asbestos fibres, 1/8 to 1/16 of an inch in length, occur in veins in serpentinized peridotite. The fibres are too short to be considered of economic importance.

References

Vos (1971, p.30)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Warden Township, Technical Survey File 2.211.

Map Reference

ODMNA Map P.775 (Lovell 1972c)

BARTON CREEK MINE

Classification

Past producer

Commodities

Asbestos, magnetite

Location

NTS 42A/9SW

Beatty Township, lot 1, concession III

Latitude	Longitude
48°34'28"	80°16'43"

Remarks

The area is underlain by Superior Province Early Precambrian intermediate to mafic metavolcanics in which much cross faulting has taken place. The asbestos deposit is in a vertical or steeply south-dipping sill-like body of peridotite which strikes N65-70W. The fibre-bearing zone is reported to be about 1,300 feet long and 600 feet wide. A bulk sample of 11,000 tons was milled at Munro Mine but no data is available regarding the commercial grade of the material.

References

Vos (1971, p.39)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Barton Creek, Township Beatty, District of Cochrane.

Map Reference

ODM Map P.864 (Lovell et al. 1973c)

HISLOP TOWNSHIP (NORTH) DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos, talc

Location

NTS 42A/9SW

Hislop Township

Northern half of township.

Latitude	Longitude
48°31'17"	80°21'40"
48°31'08"	80°20'45"
48°31'33"	80°20'10"

Remarks

The occurrences are in an area of Early Precambrian ultramafic rocks consisting mainly of peridotite, dunite, pyroxenite and serpentinite. In numerous drill cores, scant fibre has been observed, but nothing of commercial interest.

References

Prest (1957, p.34)

Map Reference

ODM Map P.832 (Lovell and Frey 1973e)

BEATTY TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/9SW

Beatty Township

Latitude	Longitude
48°33'34"	80°17'00"
48°33'00"	80°16'42"

Remarks

Asbestos is associated with serpentine in the area.

References

Vos (1971, p.33-41)

CANADIAN JOHNS-MANVILLE DEPOSIT (CENTRE CREEK GROUP)

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/9SW

Munro Township, lots 11, 12, concession II

Latitude	Longitude
48°33'50"	80°15'45"
48°33'41"	80°15'03"

Remarks

Chrysotile asbestos is found as cross-fibre veins in serpentinized peridotite and dunite. Only a small amount of fibre is present.

References

Vos (1971, p.29)

Satterly (1952, p.35)

MUNRO MINE

Classification

Past producer

Commodities

Asbestos

Location

NTS 42A/9SE

Munro Township, lot 11, concession I

Latitude	Longitude
48°33'25"	80°14'50"

Remarks

There is a narrow sill-like body of basic and ultrabasic rocks which strike northwesterly from lot 9, Munro Township to lot 3, Beatty Township. Chrysotile asbestos is associated with the serpentine which has a length of almost 2 miles. Mining was restricted to concession II, lot 10, Munro Township.

References

Hendry (1952, p.28-31)

Satterly (1952, p.36-40)

Vos (1971, p.33-41)

Map Reference

ODM Map P.120 (Ginn et al. 1962)

MUNRO TOWNSHIP DEPOSITS

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/9SE

Munro Township

Latitude	Longitude
48°36'48"	80°14'02"
48°37'20"	80°14'03"
48°36'30"	80°13'00"
48°35'50"	80°13'02"
48°36'28"	80°12'35"
48°35'55"	80°11'40"
48°36'58"	80°09'40"

Remarks

Occurrences of chrysotile asbestos are found as cross-fibre veins in serpentinized peridotite and dunite. In most places, only a small amount of fibre is present or the area of peridotite or dunite exposed is small.

References

Vos (1971, p.29)

Satterly (1952, p.41-42)

Map Reference

ODM Map 2205 (Pyke et al. 1973)

MCCOOL TOWNSHIP DEPOSITS

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/9SE

McCool Township

Latitude	Longitude
48°35'43"	80°08'23"
48°34'43"	80°07'54"
48°35'26"	80°07'32"
48°34'21"	80°07'13"
48°35'10"	80°07'07"
48°36'58"	80°06'24"
48°33'50"	80°06'24"
48°34'42"	80°06'05"
48°36'57"	80°05'57"
48°34'32"	80°05'38"
48°33'36"	80°06'38"
48°36'38"	80°05'30"
48°36'50"	80°05'18"
48°34'19"	80°05'07"
48°36'22"	80°05'00"
48°35'08"	80°04'53"
48°33'40"	80°04'27"
48°34'41"	80°03'58"
48°34'31"	80°03'53"
48°33'21"	80°02'46"
48°32'24"	80°01'14"

Remarks

The occurrences of asbestos in McCool Township are in areas of Early Precambrian serpentinized peridotite and dunite. The overburden is deep and showings of chrysotile asbestos are few. Surveys and diamond drilling have been carried out by a number of companies and no asbestos of economic importance has been found.

References

Satterly (1953, p.22-30)

Vos (1971, p.57-59)

Map Reference

ODM Map P.822 (Lovell and Frey 1973d)

DOMINION GULF DEPOSITS

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/10NW

Clergue Township

2-1/2 miles east of McIntosh Springs.

Latitude	Longitude
48°39'01"	80°47'37"
48°38'10"	80°46'45"

Remarks

Two diamond drill cores revealed asbestos fibre from less than 1/16 inch to 1/8 inch in length, in serpentinized dunite.

References

Vos (1971, p.55)

Map Reference

ODM Map 2205 (Pyke et al. 1973)

ODM Map P.308 (Carlson 1965)

KAVULA PROPERTY

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/11SW

Tisdale Township, S1/2 lot 12, concession VI.

Latitude	Longitude
48°30'07"	81°19'50"

Remarks

The occurrence is in an area of Haileyburian (Early Precambrian) serpentinite.

References

Ferguson (1968, p.33-34)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

Assessment File Report T-1642.

Map Reference

ODM Map M47a (Hurst 1939)

HOLLINGER DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos, pyrite

Location

NTS 42A/12NE

Macdiarmid Township

16 miles northwest of Timmins.

Latitude	Longitude
48°40'00"	81°32'02"

Remarks

The property is in an area underlain by Keewatin (Early Precambrian) metavolcanics, intruded by a younger mafic-ultramafic complex. Some Matachewan and Keweenawan diabase dikes are in the area. The occurrence is in a large stock of serpentinized diorite which becomes sill-like to the northwest and reflects the strike throughout the metavolcanics.

References

Middleton (1970, p.69-70)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

Assessment File Report T-560.

Map Reference

ODMNA Map P.730 (Bright and Hunt 1972a)

CANADIAN JOHNS-MANVILLE DEPOSIT

Classification

Minor occurrence

Commodities

Chromite, asbestos

Location

NTS 42A/14SE

Mann Township

1 mile south of Pickerel Lake.

Latitude	Longitude
48°50'12"	81°02'48"

Remarks

The occurrence is in an area of Early Precambrian ultramafic and serpentinized rocks. Fibre in excess of 1/8 inch in length has never been reported.

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Mann Township, Technical Survey File 2.1937.

Map Reference

OGS Map P.755 (Hunt and Richard 1980b)

ODM Map 2205 (Pyke et al. 1973)

LITTLE TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Copper, nickel, asbestos

Location

NTS 42A/15SW

Little Township

Extreme northeast corner of township.

Latitude	Longitude
48°47'37"	80°57'42"

Remarks

The occurrence is in an area of Early Precambrian ultramafic rocks, consisting mainly of peridotite, dunite, pyroxenite and serpentinite.

References

Pyke et al. (1973)

Map Reference

ODM Map P.140 (Ginn and Fenwick 1962)

QUEBEC ASBESTOS CORPORATION DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/15SW

Calvert Township

Northwest corner, 1/2 mile southwest of Nellie Lake

Latitude	Longitude
48°46'50"	80°48'02"

Remarks

Two diamond drill holes were drilled in serpentinized peridotite. Less than 2 percent fibre, under 1/8 inch in length, occurred between 554 and 570 feet in the peridotite of one hole.

References

Hewitt and Satterly (1953, p.14)

Map Reference

OGS Map P.2306 (Hunt and Richard 1980d)

MCCART TOWNSHIP DEPOSITS

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42A/15SW

McCart Township

Northern part of township.

Latitude	Longitude
48°47'18"	80°56'35"
48°46'48"	80°53'00"

Remarks

The occurrences are in an area of metamorphosed mafic and ultramafic rocks, mainly peridotite, dunite, pyroxenite and serpentinite. Several holes have been drilled in the serpentinized peridotite in the areas; and, the results were not encouraging. Traces of fibre and less than 2 percent fibre of 1/8 inch length were the only fibre encountered.

References

Vos (1971, p.29,54-55)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

Assessment File Reports T-380, T-394, and T-421.

Map Reference

ODM Map P.132 (Ginn and Leahy 1962)

ODM Map 2205 (Pyke et al. 1973)

TRAIL LAKE DEPOSIT

Classification

Major occurrence

Commodities

Asbestos

Location

NTS 42A/16SW

Moody Township

Southeast of Trail Lake.

Latitude	Longtude
48°50'35"	80°16'45"

Remarks

The occurrence is in an area of Early Precambrian ultramafic rocks. One diamond drill hole encountered pyrite and asbestos.

References

Pyke et al. (1973)

Map Reference

ODMNA Map P.776 (Lovell 1972d)

BARITE

BIEDERMAN DEPOSIT

Classification

Major occurrence

Commodities

Barite, copper, lead, zinc

Location

NTS 42A/2SE

Cairo Township

West of Browning Lake

Latitude	Longitude
48°00'18"	80°35'23"

Remarks

A barite vein was stripped for a distance of 85 feet, beyond which it is concealed by a thin covering of soil. It has a maximum width of 9 feet. The barite is mainly white and of good quality. The country rock surrounding the vein is red syenite.

References

Guillet (1963, p.17-18)

Lovell (1967, p.50)

Map Reference

ODM Map P.273 (Lovell 1965)

PREMIER LANGMUIR MINE

Classification

Past producer

Commodities

Barite, lead, zinc, copper

Location

NTS 42A/7SW

Langmuir Township

1/2 mile west of Night Hawk River.

Latitude	Longitude
48°16'55"	80°59'45"

Remarks

There are two barite veins in mafic metavolcanics, 18.3 m apart. The main vein is 304 m long, 0.9 m wide and 39.6 m deep.

References

Berry (1942, p.13-15)

Guillet (1963, p.18-19)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Premier, Township Langmuir, District Cochrane.

Map Reference

ODM Map P.444 (Pyke 1966)

BISMUTH

CARLSON DEPOSIT

Classification

Minor occurrence

Commodities

Gold, copper, nickel, bismuth, molybdenum

Location

NTS 42A/8SE

Benoit Township, N1/2 lot 2, concession I.

Latitude	Longitude
48°17'13"	80°09'29"

Remarks

The occurrence is in an area where a diabase dike cuts through Early Precambrian mafic to intermediate metavolcanics. The main showing consists of quartz-carbonate stockworks which contain pyrite, chalcopyrite, native bismuth, niccolite and fine native gold.

References

Lovell (1971, p.18)

Map Reference

OGS Map P.873 (Lovell et al. 1978)

CHROMITE

INCO DEPOSIT

Classification

Minor occurrence

Commodities

Nickel, pyrite, chromite

Location

NTS 42A/13NE

Kingsmill Township

East bank of Caribou River.

Latitude	Longitude
48°57'48"	81°37'35"

Remarks

The occurrence is in an area of serpentinized peridotite, dunite and pyroxenite and metagabbro (simple sill-like lenses and minor flows).

References

Pyke et al. (1973)

Map Reference

ODMNA Map P.698 (Bright 1971a)

UPPER CANADA DEPOSIT

Classification

Minor occurrence

Commodities

Chromite

Location

NTS 42A/14NE

Reaume Township

Northwest corner of township.

Latitude	Longitude
48°57'01"	81°11'58"

Remarks

An outcrop on the property measures 200 by 300 feet. The occurrence of chromite-bearing rock is near the north edge of the outcrop. From south to north, the rock appears to become darker and to contain more chromium and iron. This could suggest that there is a greater concentration of these metals at the lower edge of the mass under the overburden and muskeg to the north.

References

Vos (1971, p.52-54)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

Assessment File Reports T-239, T-1431, and T-749.

Map Reference

ODM Map P.767 (Bright and Hunt 1972f)

ODM Map 2205 (Pyke et al. 1973)

CANADIAN JOHNS-MANVILLE DEPOSIT

Classification

Minor occurrence

Commodities

Chromite, asbestos

Location

NTS 42A/14SE

Listed under ASBESTOS

FLUORITE

P.C.E. EXPLORATION DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, fluorite

Location

NTS 42A/11NW

Prosser Township

1 mile south of Jocko Creek.

Latitude	Longitude
48°43'00"	81°19'01"

Remarks

The area consists of Keewatin (Early Precambrian) metavolcanics and metasediments which are isoclinally folded. These were intruded by stocks, pipes, sills and dikes of granitic to ultrabasic-type rocks of Haileyburian and Algoman age, and finally were intruded by diabase dikes of Matachewan and Keweenawan age. No economic mineralization was found on the property.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

Assessment File Report T-808.

Map Reference

ODMNA Map P.698 (Bright 1971a)

GRAPHITE

PUDDEN DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, garnet

Location

NTS 42A/1NE

Maisonville Township, N1/2 lot 8, concession II.

Latitude	Longitude
48°12'50"	80°13'35"

Remarks

The occurrence is in an area of Early Precambrian mafic to intermediate metavolcanics (Keewatin), composed of basalt and andesite (pillowed and massive). Nine holes totalling 416 feet were drilled in 1955.

References

Lovell (1971, p.30)

Map Reference

OGS Map P.876 (Ploeger et al. 1979)

INCO DEPOSIT

Classification

Minor occurrence

Commodities

Zinc, graphite

Location

NTS 42A/1SE

Otto Township, lot 4, concession VI.

Latitude	Longitude
48°05'54"	80°03'33"

Remarks

A broad zone of graphitic schist, chert and tuff is interbedded with volcanic rocks. The zone is a type of iron formation. An International Nickel Company of Canada Limited core log revealed graphitic schist, gabbro and little mineralization. A sample of sludge from the drill site contained 0.04 percent zinc.

References

Lovell (1972a, p.27)

Map Reference

ODM Map P.501 (Lovell et al. 1969)

LUKE LAKE GROUP & REDSTONE RIVER GROUP

Classification

Minor occurrence

Commodities

Pyrite, graphite

Location

NTS 42A/3SE

Hutt Township

North end of township.

Latitude	Longitude
48°00'36"	81°00'05"
48°00'41"	81°07'25"

Remarks

The properties are underlain by intermediate to felsic tuff and tuff breccia with minor interbeds of graphitic tuff and subordinate mafic to intermediate flows and flow breccias.

References

Bright (1978, p.82,102)

Map Reference

ODM Map P.491 (Bright 1968c)

PHELPS DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, graphite

Location

NTS 42A/3SE

Zavitz Township

Northwest of Dexter Lake.

Latitude	Longitude
48°01'42"	81°07'40"

Remarks

The occurrence is in an area of Early Precambrian intermediate to mafic metavolcanics. The area is cut by a large northwest-trending diabase dike. There have been two diamond drill holes put down.

References

Bright (1978, p.93)

Pyke (1978b, p.11-18)

Map Reference

ODM Map 2290 (Bright 1974b)

CANADIAN SUPERIOR EXPLORATIONS DEPOSIT (MENORAH MINES)

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 42A/6NE

Carman Township

Southwest portion of Night Hawk Lake.

Latitude	Longitude
48°25'05"	81°02'20"
48°25'00"	81°02'10"

Remarks

Four diamond drill holes encountered variable rock types which included predominantly felsic volcanic rocks ranging from tuff to agglomerate, rhyolite, and porphyry. Minor ultramafic rocks and porphyries intruded the associated graphitic sedimentary rocks, cherty iron formation and mafic volcanic rocks.

References

Leahy (1971, p.38-39)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

Assessment File Reports T-1263 and T-943.

Map Reference

ODM Map P.356 (Leahy 1969)

INCO DEPOSIT

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 42A/8SW

Lee Township

1/2 mile southwest of Meyers Lake.

Latitude	Longitude
48°15'29"	80°18'33"

Remarks

The occurrence is in an area of Early Precambrian mafic to intermediate metavolcanics (Keewatin). A diamond drill hole put down by International Nickel Company of Canada Limited intersected graphitic schist.

References

Lovell (1971, p.25)

Map Reference

ODM Map P.895 (Lovell and de Grijs 1975a)

SELCO DEPOSIT

Classification

Minor occurrence

Commodities

Copper, lead, zinc, graphite

Location

NTS 42A/8SW

Black Township

Approximately 600 feet north of Victor Lake.

Latitude	Longitude
48°21'26"	80°17'31"

Remarks

The occurrence is in an area of Early Precambrian mafic to intermediate metavolcanics (Keewatin). A test hole intersected banded graphitic chert with disseminated pyrite.

References

Lovell (1971, p.24)

Map Reference

ODM Map P.328 (Lovell 1966b)

SHALLOW RIVER DEPOSIT

Classification

Minor occurrence

Commodities

Gold, graphite, sphalerite, pyrrhotite, chalcopyrite

Location

NTS 42A/9NW

Coulson Township

South shore of Shallow River, at northern boundary of township.

Latitude	Longitude
48°42'27"	80°22'13"

Remarks

The occurrence is in an area of Early Precambrian felsic metavolcanics. There is a magnetic anomaly which probably represents diabase and the conductor is due to a graphitic or mineralized shear along the contact.

References

Pyke et al. (1973)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Technical Survey File 63.1708.

Map Reference

ODM Map P.852 (Lovell et al. 1973a)

COULSON TOWNSHIP (EAST) DEPOSIT

Classification

Minor occurrence

Commodities

Gold, graphite

Location

NTS 42A/9NW

Coulson Township

On the eastern boundary of the township.

Latitude	Longitude
48°38'39"	80°16'35"

Remarks

The occurrence is in an area of Early Precambrian felsic metavolcanics. The results of a magnetic survey indicate a graphitic metasediment.

References

Pyke et al. (1973)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Technical Survey File 2.874.

Map Reference

ODM Map P.852 (Lovell et al. 1973a)

CONDUC DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, graphite

Location

NTS 42A/11NW

Carnegie Township, N1/2 lot 3, concession II.

Latitude	Longitude
48°44'48"	81°21'00"

Remarks

Diamond drilling located andesite and rhyolite with narrow zones of graphite slate. The area around the occurrence is Early Precambrian intermediate to mafic metavolcanics.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

Assessment File Reports T-1198, T-1246, and T-245.

Map Reference

OGS Map P.704 (Hunt and Richard 1980a)

ODM Map 2205 (Pyke et al. 1973)

INCO DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, zinc, pyrite

Location

NTS 42A/11NW

Carnegie Township

1/2 mile east of Jocko Creek.

Latitude	Longitude
48°44'50"	81°23'00"

Remarks .

The occurrence is in an area of Early Precambrian intermediate to mafic metavolcanics, mainly mafic flows and pyroclastic rocks. The hole drilled by International Nickel Company of Canada Limited (Inco) in 1965 intersected massive and porphyritic andesite and a conductive graphitic layer.

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Carnegie Township, Technical Survey File 2.817.

Map Reference

OGS Map P.704 (Hunt and Richard 1980a)

ODM Map 2205 (Pyke et al. 1973)

CROMARTY (NICKEL OFFSETS) DEPOSIT

Classification

Major occurrence

Commodities

Silver, gold, graphite

Location

NTS 42A/11NE

Tully Township

5-1/2 miles northwest of Nerauderau Lake.

Latitude	Longitude
48°43'02"	81°11'00"

Remarks

A gold-bearing zone occurs in a band of strongly silicified and carbonated sheared graphitic tuff (andesite), between a thick hanging wall sequence of argillite and siltstone in the north and an intrusive body of serpentinized peridotite in the south.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

Assessment File Report T-1468.

Map Reference

ODMNA Map P.698 (Bright 1971a)

ODMNA Map P.699 (Bright 1971b)

MACDIARMID TOWNSHIP (SOUTHEAST) DEPOSIT

Classification

Minor occurrence

Commodities

Arsenopyrite, graphite, pyrite

Location

NTS 42A/12NE

Macdiarmid Township

Southeast corner of township.

Latitude	Longitude
48°37'43"	81°30'50"

Remarks

The area surrounding the occurrence is underlain by Early Precambrian metavolcanics, metasediments and mafic to felsic intrusive rocks. Pyrite is found in the graphitic tuff units and andesite flows in Macdiarmid Township.

References

Middleton (1974a, p.10)

Map Reference

ODMNA Map P.730 (Bright and Hunt 1972a)

KEEVIL DEPOSIT (MAHAFFY TOWNSHIP)

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, graphite

Location

NTS 42A/13SE

Mahaffy Township

2 miles northwest of Sturgeon Falls

Latitude	Longitude
48°50'35"	81°31'00"

Remarks

The occurrence is in an area of Early Precambrian felsic metavolcanics. Results from electromagnetic surveys suggest that most parts of the anomalies contain graphite alone, but that there are many examples of massive sulphide deposits occurring within the graphite belts.

References

Resident Geologist's Files, Timmins

Assessment File Reports T-1045 and T-1634.

Map Reference

ODMNA Map P.740 (Bright and Hunt 1972c)

ODM Map 2205 (Pyke et al. 1973)

KEEVIL DEPOSIT (CARNEGIE TOWNSHIP)

Classification

Minor occurrence

Commodities

Zinc, silver, copper, graphite

Location

NTS 42A/14SW

Carnegie Township

3-1/2 miles east of Jocko Creek, northwest part of the township.

Latitude	Longitude
48°47'37"	81°23'48"

Remarks

The occurrence is in an area of intermediate and mafic metavolcanics. The area is completely covered with overburden and there are no outcrops.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

Assessment File Report T-1309.

Map Reference

OGS Map P.704 (Hunt and Richard 1980a)

ODM Map 2205 (Pyke et al. 1973)

TULLY TOWNSHIP (NORTH) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, graphite

Location

NTS 42A/14SE

Tully Township

North half of township.

Latitude	Longitude
48°45'13"	81°11'35"
48°46'00"	81°07'00"

Remarks

Tully Township is underlain by generally east-striking Keewatin (Early Precambrian) metavolcanics intruded by small masses of basic to ultrabasic rocks. Graphite layers in the Keewatin metavolcanics contain mainly pyrite and minor pyrrhotite and chalcopyrite.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

Assessment File Reports T-1183, T-1443, T-1538, T-942, T-1448, and T-1914.

Map Reference

ODMNA Map P.699 (Bright 1971b)

ODM Map 2205 (Pyke et al. 1973)

EDWARDS TOWNSHIP DEPOSIT 1

Classification

Minor occurrence

Commodities

Graphite, chalcopyrite, pyrite, pyrrhotite

Location

NTS 42A/15SE

Edwards Township

Latitude	Longitude
48°50'35"	80°38'05"

Remarks

The occurrence is in an area of Early Precambrian metasediments. Generally, the rocks in the area are greywacke, siltstone, slate, argillite and minor pebble conglomerate.

References

Pyke et al. (1973)

Map Reference

ODM Map P.853 (Lovell et al. 1973b)

HEMATITE

HASTINGS-MOFFAT DEPOSIT

Classification

Minor occurrence

Commodities

Gold, hematite

Location

NTS 42A/1NE

Maisonville Township, S1/2 lot 8, concession II.

Latitude	Longitude
48°12'25"	80°13'46"

Remarks

The occurrence is in an area of Early Precambrian mafic and ultramafic intrusive rocks. In 1934 five diamond drill holes revealed 464 feet of quartz veins, striking and dipping in several directions.

References

Lovell (1971, p.27)

Map Reference

OGS Map P.876 (Ploeger et al.1979)

COCHRANE DEPOSIT

Classification

Minor occurrence

Commodities

Copper, hematite

Location

NTS 42A/1SE

Otto Township, lot 8, concession I.

Latitude	Longitude
48°00'22"	80°05'41"

Remarks

There are chalcopyrite blebs and specular hematite in quartz carbonate gash veins which cut syenite and a feldspar porphyry dike.

References

Lovell (1972a, p.26-27)

Map Reference

ODM Map P.501 (Lovell et al. 1969)

HONSBERGER-MCVITTIE DEPOSIT

Classification

Minor occurrence

Commodities

Gold, hematite

Location

NTS 42A/2SW

Baden Township

West half of township.

Latitude	Longitude
48°04'44"	80°45'50"
48°03'29"	80°45'43"

Remarks

Quartz veins cut through andesite, tuff, agglomerate and syenite in the area. On either side of the quartz, the wallrock has been reddened, probably due to hematite in the same hydrothermal solutions that introduced the quartz.

References

Lovell (1967, p.27-29)

Map Reference

ODM Map P.195 (Lovell 1963)

NIGHT HAWK RIVER DEPOSIT

Classification

Minor occurrence

Commodities

Hematite, pyrite

Location

NTS 42A/3NE

Fallon Township

2-1/2 miles west of the Night Hawk River.

Latitude	Longitude
48°12'40"	81°12'45"

Remarks

The occurrence is in an area of Early Precambrian felsic intrusive rocks consisting of syenite and monzonite feldspar porphyry.

References

Pyke (1978b, p.38)

Map Reference

ODM Map 2205 (Pyke et al. 1973)

PETERLONG LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Hematite

Location

NTS 42A/3SW

Beemer Township

East shore of Peterlong Lake.

Latitude	Longitude
48°04'00"	81°25'35"

Remarks

The occurrence is in an area of Early Precambrian felsic intrusive rocks. Hematite is present in an aplite and felsite dike.

References

Bright (1978, p.48)

Pyke (1978b, p.24)

Map Reference

ODM Map 2289 (Bright 1974a)

ZAVITZ CREEK DEPOSIT

Classification

Minor occurrence

Commodities

Hematite

Location

NTS 42A/3SE

Zavitz Township

3/4 mile east of Zavitz Creek.

Latitude	Longitude
48°02'30"	81°09'30"

Remarks

The occurrence is in an area of Middle Precambrian mafic intrusive rocks. There is hematite present in a northeast-trending diabase dike.

References

Bright (1978, p.53-54)

Pyke (1978b, p.32-33)

Map Reference

ODM Map 2290 (Bright 1974b)

MAGNESITE

ALLERSTON DEPOSIT

Classification

Minor occurrence

Commodities

Talc, magnesite

Location

NTS 42A/6NE

Shaw Township

Northwest portion of the township.

Latitude	Longitude
48°25'10"	81°11'15"

Remarks

Much of the northern part of the property is underlain by serpentinite with associated talc-chlorite and carbonate alteration phases. The southern part of the property appears to be underlain by andesite flows with which there may be associated some narrow bands of "lean" iron formation.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

Assessment File Reports T-1200 and T-1208.

Map Reference

ODM Map P.343 (Carlson 1966)

CANADIAN MAGNESITE MINES DEPOSIT

Classification

Major occurrence

Commodities

Magnesite, talc

Location

NTS 42A/6SW

Deloro Township

7 miles southeast of Timmins.

Latitude	Longitude
48°22'08"	81°17'03"

Remarks

The area is underlain by Keewatin (Early Precambrian) lavas that have been intruded by ultrabasic rocks which were altered to serpentine. Further alteration is thought to have recrystallized the serpentine to talc. With the introduction of carbonate and the presence of magnesium, magnesite was formed. The other minerals present are hematite and quartz.

References

Carlson (1967, p.89a-91)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Canadian Magnesite, Township Deloro, District Cochrane.

Resident Geologist's Files, Timmins

Assessment File Reports T-708 and T-108.

Map Reference

ODM Map 2205 (Pyke et al. 1973)

MAGNESIUM

CANADIAN MAGNESITE MINES DEPOSIT

Classification

Minor occurrence

Commodities

Magnesium

Location

NTS 42A/6SW

Adams Township

Along the northern boundary of the township.

Latitude	Longitude
48°21'37"	81°15'25"

Remarks

The property is underlain by Early Precambrian ultramafic rocks. Outcrops and a drill hole suggest that the ultramafic rocks are partially altered to magnesite. One grab sample gave 16.9 percent MgO, 3.25 percent CaO, 15.1 percent CO_2, and 8.21 percent Fe_2O_3.

References

Pyke (1975, p.29-30)

Map Reference

ODM Map P.571 (Pyke 1969)

MAGNETITE

PUDDEN DEPOSIT

Classification

Minor occurrence

Commodities

Epidote, magnetite

Location

NTS 42A/1NE

Maisonville Township, S1/2 lot 10, concession II.

Latitude	Longitude
48°12'27"	80°14'50"

Map Reference

OGS Map P.876 (Ploeger et al. 1979)

WINNIE LAKE DEPOSIT

Classification

Major occurrence

Commodities

Gold, copper, zinc, magnetite

Location

NTS 42A/1NE

Teck Township

Latitude	Longitude
48°11'23"	80°08'46"

Map Reference

ODM Map 1945-1 (Thomson 1945)

KEEVIL DEPOSIT

Classification

Minor occurrence

Commodities

Gold, magnetite

Location

NTS 42A/1SE

Ely Township, lot 3, concession III.

Latitude	Longitude
48°03'02"	80°10'21"

Map Reference

ODM Map P.448 (Lovell 1968)

EEY TOWNSHIP (LOT 3, CONC III) DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite, pyrrhotite, chalcopyrite, pyrite

Location

NTS 42A/1SE

Ely Township, lot 3, concession III.

Latitude	Longitude
48°02'51"	80°11'06"

Map Reference

ODM Map P.448 (Lovell 1968)

ENGLISH TOWNSHIP DEPOSIT 1

Classification

Minor occurrence

Commodities

Iron, pyrite, magnetite, pyrrhotite

Location

NTS 42A/3SE

English Township

Latitude	Longitude
48°03'05"	81°13'15"
48°05'55"	81°12'10"

Map Reference

ODM Map P.899 (Lovell and de Grijs 1975b)

CANADIAN NICKEL COMPANY DEPOSITS

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, magnetite, nickel, copper

Location

NTS 42A/6SE

Eldorado Township

1/2 mile west of Redstone River.

Latitude	Longitude
48°19'25"	81°10'28"
48°19'08"	81°09'45"

Map Reference

ODM Map 2205 (Pyke et al. 1973)

BERNHARDT TOWNSHIP DEPOSIT 1

Classification

Minor occurrence

Commodities

Pyrite, magnetite

Location

NTS 42A/8SE

Bernhardt Township

Latitude	Longitude
48°15'15"	80°07'20"

Map Reference

ODM Map P.446 (Rupert and Lovell 1968a)

BARTON CREEK MINE

Classification

Past producer

Commodities

Asbestos, magnetite

Location

NTS 42A/9SW

Listed under ASBESTOS

THORBURN TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Copper, zinc, pyrrhotite, magnetite, epidote

Location

NTS 42A/12NE

Thorburn Township

Latitude	Longitude
48°43'50"	81°43'28"

Map Reference

ODM Map P.754 (Bright and Hunt 1972d)

MABEE TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Nickel, copper, magnetite

Location

NTS 42A/13NE

Mabee Township

Latitude	Longitude
48°58'32"	81°44'28"

Map Reference

ODMNA Map P.698 (Bright 1971a)

MOBERLY TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, chalcopyrite, magnetite

Location

NTS 42A/13SW

Moberly Township

Latitude	Longitude
48°47'15"	81°45'25"

Map Reference

ODMNA Map P.698 (Bright 1971a)

EDWARDS TOWNSHIP DEPOSIT 2

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, magnetite

Location

NTS 42A/15SE

Edwards Township

Latitude	Longitude
48°51'20"	80°37'03"

Map Reference

ODM Map P.853 (Lovell et al. 1973b)

MARL

TWIN LAKES DEPOSIT

Classification

Minor occurrence

Commodities

Marl

Location

NTS 42A/5SE

Thornloe Township

West-central part of township.

Latitude	Longitude
48°19'05"	81°34'40"

Remarks

There are two lakes in the west-central part of the township. Marl underlies the east lake, but not the west lake. The marl is erratically distributed, at one point it was found to a depth of 16 feet. Five samples gave an average of 87.0 percent $CaCO_3$, 2.2 percent $MgCO_3$, 0.28 percent Fe_2O_3, and 1.83 percent insoluble.

References

Guillet (1969, p.115-117)

Map Reference

ODM Map P.29 (Ferguson 1959b)

DAVIS LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Marl

Location

NTS 42A/7SE

McEvay Township

Davis Lake

Latitude	Longitude
48°20'20"	80°32'10"

Remarks

Marl was found in only one shallow bay at the northwest end of the lake. The marl is of good quality. Two samples averaged 86.5 percent $CaCO_3$, 1.7 percent $MgCO_3$, 0.31 percent Fe_2O_3, and 1.89 percent insoluble.

References

Guillet (1969, p.112-114)

Map Reference

ODM Map 2205 (Pyke et al. 1973)

NEPHELINE

OTTO TOWNSHIP (NORTH) DEPOSITS

Classification

Minor occurrence

Commodities

Nepheline, radioactive materials

Location

NTS 42A/1SE

Otto Township

Northern half of township.

Latitude	Longitude
48°04'25"	80°07'40"
48°04'43"	80°05'53"
48°04'29"	80°04'50"
48°05'04"	80°02'33"
48°04'52"	80°02'00"

Remarks

The country rock consists of Proterozoic alkalic intrusive rocks. Nepheline is found in three areas along the northern contact of the Otto syenitic stock. Some areas of the nepheline-bearing rocks are radioactive.

References

Lovell (1972a, p.29-30)

Map Reference

ODM Map P.501 (Lovell et al. 1969)

PYRITE

BERNHARDT TOWNSHIP DEPOSIT 2

Classification

Minor occurrence

Commodities

Pyrite, chalcopyrite

Location

NTS 42A/1NE

Bernhardt Township

Latitude	Longitude
48°13'35"	80°05'15"

Map Reference

ODM Map P.446 (Rupert and Lovell 1968a)

LEE TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, epidote

Location

NTS 42A/1NW

Lee Township

Latitude	Longitude
48°12'45"	80°18'45"

Map Reference

ODM Map P.395 (Lovell and de Grijs 1975a)

BURT TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Chalcopyrite, pyrite

Location

NTS 42A/1SW

Burt Township

Latitude	Longitude
48°04'00"	80°17'05"

Map Reference

ODM Map P.207 (Moore 1963)

EBY TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite, pyrrhotite, chalcopyrite, pyrite

Location

NTS 42A/1SE

Listed under MAGNETITE

NIGHT HAWK RIVER DEPOSIT

Classification

Minor occurrence

Commodities

Hematite, pyrite

Location

NTS 42A/3NE

Listed under HEMATITE

BEEMER TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 42A/3SW

Beemer Township

Latitude	Longitude
48°03'18"	81°25'25"

Map Reference

ODM Map P.453 (Bright 1968a)

ENGLISH TOWNSHIP DEPOSIT 2

Classification

Minor occurrence

Commodities

Iron, pyrrhotite, pyrite

Location

NTS 42A/3SW

English Township

Latitude	Longitude
48°03'30"	81°15'50"

Map Reference

ODM Map P.899 (Lovell and de Grijs 1975b)

HELPERT DEPOSIT

Classification

Minor occurrence

Commodities

Copper, pyrite, pyrrhotite

Location

NTS 42A/3SE

Zavitz Township

Latitude	Longitude
48°04'05"	81°05'10"

Map Reference

ODM Map 2290 (Bright 1974b)

LUKE LAKE GROUP & REDSTONE RIVER GROUP

Classification

Minor occurrence

Commodities

Pyrite, graphite

Location

NTS 42A/3SE

Listed under GRAPHITE

PHELPS DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, graphite

Location

NTS 42A/3SE

Listed under GRAPHITE

ENGLISH TOWNSHIP DEPOSIT 1

Classification

Minor occurrence

Commodities

Iron, pyrite, magnetite, pyrrhotite

Location

NTS 42A/3SE

Listed under MAGNETITE

SEWELL TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Chalcopyrite, pyrite, pyrrhotite

Location

NTS 42A/4NW

Sewell Township

Latitude	Longitude
48°14'30"	81°56'50"
48°14'27"	81°54'42"

Map Reference

ODMNA Map 2231 (Milne 1972b)

WHITESIDES TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, chalcopyrite

Location

NTS 42A/5NW

Whitesides Township

Latitude	Longitude
48°24'45"	81°46'10"

Map Reference

ODM Map P.488 (Leahy 1968b)

GODFREY TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, sphalerite, galena

Location

NTS 42A/5NE

Godfrey Township

Latitude	Longitude
48°29'20"	81°30'35"

Map Reference

ODM Map P.967 (Middleton 1974b)

CANADIAN NICKEL COMPANY DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, magnetite, nickel, copper

Location

NTS 42A/6SE

Listed under MAGNETITE

BERNHARDT TOWNSHIP DEPOSIT 1

Classification

Minor occurrence

Commodities

Pyrite, magnetite

Location

NTS 42A/8SE

Listed under MAGNETITE

BLACK RIVER DEPOSIT

Classification

Minor occurrence

Commodities

Epidote, pyrite, chalcopyrite, serpentine

Location

NTS 42A/10SW

Carr Township

Northeast of the Black River.

Latitude	Longitude
48°33'32"	80°29'25"

Remarks

The occurrence is in an area of Early Precambrian metavolcanics, consisting mainly of mafic flows and pyroclastic rocks.

References

Prest (1952, p.6-8)

Map Reference

ODM Map 2205 (Pyke et al. 1973)

CONDUC DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, graphite

Location

NTS 42A/11NW

Listed under GRAPHITE

INCO DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, zinc, pyrite

Location

NTS 42A/11NW

Listed under GRAPHITE

P.C.E. EXPLORATIONS DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, fluorite

Location

NTS 42A/11NW

Listed under FLUORITE

MACDIARMID TOWNSHIP DEPOSIT 1

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 42A/11NW

Macdiarmid Township

Latitude	Longitude
48°41'35"	81°29'33"

Map Reference

ODMNA Map P.730 (Bright and Hunt 1972a)

REID TOWNSHIP DEPOSIT 1

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, sphalerite

Location

NTS 42A/11NW

Reid Township

Latitude	Longitude
48°42'50"	81°28'00"

Map Reference

ODMNA Map P.700 (Bright 1971c)

CARNEGIE TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 42A/11NW

Carnegie Township

Latitude	Longitude
48°42'47"	81°27'08"

Map Reference

OGS Map P.704 (Hunt and Richard 1980a)

KIDD TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 42A/11NW

Kidd Township

Latitude	Longitude
48°39'52"	81°26'45"

Map Reference

OGS Map P.486 (Hunt et al. 1980a)

PROSSER TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 42A/11NW

Prosser Township

Latitude	Longitude
48°44'25"	81°17'28"

Map Reference

ODMNA Map P.698 (Bright 1971a)

CROMARTY (ACME OPTION) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, talc

Location

NTS 42A/11NE

Tully Township

West of West Buskegau River.

Latitude	Longitude
48°44'45"	81°10'00"

Remarks

Two small outcrops on the property are predominantly fragmented, felsic volcanic rocks. The larger of the two is cut by a narrow andesitic northeasterly striking band. One diamond drill hole encountered rocks of andesitic composition and one narrow band of graphitic material.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

Assessment File Reports T-814, T-980, and T-1493.

Map Reference

ODMNA Map P.698 (Bright 1971a)

ODMNA Map P.699 (Bright 1971b)

GOWAN TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, sphalerite, chalcopyrite

Location

NTS 42A/11NE

Gowan Township

Latitude	Longitude
48°39'15"	81°09'52"

Map Reference

OGS Map P.729 (Hunt et al. 1980b)

JESSOP TOWNSHIP DEPOSITS

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 42A/11SW

Jessop Township

Latitude	Longitude
48°36'25"	81°27'20"
48°36'40"	81°25'05"
48°33'35"	81°24'35"
48°36'55"	81°24'17"

Map Reference

ODMNA Map P.698 (Bright 1971a)

HOLLINGER DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos, pyrite

Location

NTS 42A/12NE

Listed under ASBESTOS

LOVELAND TOWNSHIP DEPOSITS

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, chalcopyrite, sphalerite

Location

NTS 42A/12NE

Loveland Township

Latitude	Longitude
48°42'20"	81°42'20"
48°39'05"	81°38'00"
48°42'40"	81°36'50"
48°40'22"	81°35'50"

Map Reference

OGS Map 839 (Hunt and Richard 1980c)

MACDIARMID TOWNSHIP DEPOSIT 2

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 42A/12NE

Macdiarmid Township

Latitude	Longitude
48°41'17"	81°34'05"
48°39'26"	81°32'40"

Map Reference

ODMNA Map P.730 (Bright and Hunt 1972a)

MACDIARMID TOWNSHIP (SOUTHEAST) DEPOSIT

Classification

Minor occurrence

Commodities

Arsenopyrite, graphite, pyrite

Location

NTS 42A/12NE

Listed under GRAPHITE

MASSEY TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 42A/12SW

Massey Township

Latitude	Longitude
48°30'18"	81°51'48"

Map Reference
ODMNA Map P.698 (Bright 1971a)

COTE TOWNSHIP DEPOSIT
Classification
Minor occurrence

Commodities
Chalcopyrite, pyrite

Location
NTS 42A/12SW
Cote Township

Latitude	Longitude
48°34'36"	81°48'10"

Map Reference
ODMNA Map P.698 (Bright 1971a)

INCO DEPOSIT
Classification
Minor occurrence

Commodities
Nickel, pyrite, chromite

Location
NTS 42A/13NE
Listed under CHROMITE

KINGSMILL TOWNSHIP DEPOSIT
Classification
Minor occurrence

Commodities
Pyrite, pyrrhotite

Location
NTS 42A/13NE
Kingsmill Township

Latitude	Longitude
48°56'31"	81°37'45"

Map Reference
ODMNA Map P.698 (Bright 1971a)

AUBIN TOWNSHIP DEPOSIT 1
Classification
Minor occurrence

Commodities
Nickel, pyrite

Location
NTS 42A/13NE
Aubin Township

Latitude	Longitude
48°53'17"	81°33'30"

Map Reference
ODMNA Map P.698 (Bright 1971a)

AUBIN TOWNSHIP DEPOSIT 2
Classification
Minor occurrence

Commodities
Pyrite, pyrrhotite

Location
NTS 42A/13NE
Aubin Township

Latitude	Longitude
48°54'42"	81°32'34"

Map Reference
ODMNA Map P.698 (Bright 1971a)

AITKEN TOWNSHIP DEPOSIT
Classification
Minor occurrence

Commodities
Pyrite, pyrrhotite

Location
NTS 42A/13SW
Aitken Township

Latitude	Longitude
48°49'30"	81°53'33"

Map Reference
ODMNA Map P.698 (Bright 1971a)

KEEVIL DEPOSIT
Classification
Minor occurrence

Commodities
Pyrite, pyrrhotite, graphite

Location
NTS 42A/13SE
Listed under GRAPHITE

WILHELMINA TOWNSHIP DEPOSIT
Classification
Minor occurrence

Commodities
Pyrite, pyrrhotite

Location
NTS 42A/13SE
Wilhelmina Township

Latitude	Longitude
48°49'50"	81°44'50"

Map Reference
ODMNA Map P.698 (Bright 1971a)

MOBERLY TOWNSHIP DEPOSIT
Classification
Minor occurrence

Commodities
Pyrrhotite, pyrite

Location
NTS 42A/13SE
Moberly Township

Latitude	Longitude
48°47'05"	81°44'00"

Map Reference
ODMNA Map P.698 (Bright 1971a)

GEARY TOWNSHIP DEPOSIT
Classification
Minor occurrence

Commodities
Pyrrhotite, pyrite

Location
NTS 42A/13SE
Geary Township

Latitude	Longitude
48°48'40"	81°36'10"

Map Reference
ODMNA Map P.739 (Bright and Hunt 1972b)

MAHAFFY TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, chalcopyrite, sphalerite

Location

NTS 42A/13SE

Mahaffy Township

Latitude	Longitude
48°52'25"	81°31'16"

Map Reference

ODMNA Map P.740 (Bright and Hunt 1972c)

AUBIN TOWNSHIP DEPOSIT 3

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 42A/14NW

Aubin Township

Latitude	Longitude
48°53'18"	81°28'31"

Map Reference

ODMNA Map P.698 (Bright 1971a)

REAUME TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite

Location

NTS 42A/14NE

Reaume Township

Latitude	Longitude
48°55'42"	81°10'45"
48°57'47"	81°08'58"

Map Reference

ODM Map P.767 (Bright and Hunt 1972f)

AREA MINES DEPOSIT

Classification

Minor occurrence

Commodities

Zinc, pyrrhotite, pyrite

Location

NTS 42A/14SW

Carnegie Township

Latitude	Longitude
48°46'17"	81°22'46"
48°46'39"	81°22'25"

Map Reference

ODMNA Map P.704 (Bright 1971d)

REID TOWNSHIP DEPOSIT 2

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 42A/14SW

Reid Township

Latitude	Longitude
48°45'06"	81°29'15"

Map Reference

ODMNA Map P.700 (Bright 1971c)

CRAWFORD TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 42A/14SW

Crawford Township

Latitude	Longitude
48°51'58"	81°21'50"

Map Reference

ODM Map P.487 (Leahy 1968a)

LUCAS TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 42A/14SW

Lucas Township

Latitude	Longitude
48°48'12"	81°19'28"

Map Reference

ODMNA Map P.698 (Bright 1971a)

TULLY TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 42A/14SE

Tully Township

Latitude	Longitude
48°46'18"	81°11'55"

Map Reference

ODMNA Map P.699 (Bright 1971b)

TULLY TOWNSHIP (NORTH) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, graphite

Location

NTS 42A/14SE

Listed under GRAPHITE

MANN TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 42A/14SE

Mann Township

Latitude	Longitude
48°49'10"	81°02'25"
48°48'05"	81°01'34"

Map Reference

ODM Map P.755 (Bright and Hunt 1972e)

STIMSON TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, copper, nickel

Location

NTS 42A/15NE

Stimson Township

Latitude	Longitude
48°59'45"	80°35'09"

Map Reference

ODM Map P.863 (Lovell and de Grijs 1973)

EDWARDS TOWNSHIP DEPOSIT 1

Classification

Minor occurrence

Commodities

Graphite, chalcopyrite, pyrite, pyrrhotite

Location

NTS 42A/15SE

Listed under GRAPHITE

EDWARDS TOWNSHIP DEPOSIT 2

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, magnetite

Location

NTS 42A/15SE

Listed under MAGNETITE

EDWARDS TOWNSHIP DEPOSIT 3

Classification

Minor occurrence

Commodities

Pyrite, chalcopyrite

Location

NTS 42A/15SE

Edwards Township

Latitude	Longitude
48°50'28"	80°40'00"

Map Reference

ODM Map P.853 (Lovell et al. 1973b)

SERPENTINE

SHALLOW RIVER DEPOSIT

Classification

Minor occurrence

Commodities

Serpentine, talc

Location

NTS 42 A/10SW

Beatty Township

About 1-1/2 miles southeast of Painkiller Lake and just north of Shallow River.

Latitude	Longitude
48°36'28"	80°19'10"

Remarks

A differentiated mafic to ultramafic (gabbro) sill has been outlined and traced for 3 miles from lot 9 in Munro Township to lot 3 in Beatty Township. To the north and south, the sill is in contact with intermediate to mafic volcanic rocks, classified as dacite and andesite. A small exposure of serpentinized peridotite was found along the southern margin of the gabbro sill.

References

Satterly (1952, p.37)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Technical File 2.3451

Map Reference

ODM Map P.864 (Lovell et al. 1973c)

BLACK RIVER DEPOSIT

Classification

Minor occurrence

Commodities

Epidote, pyrite, chalcopyrite, serpentine

Location

NTS 42A/10SW

Listed under PYRITE

GEARY TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Copper, pyrrhotite, sphalerite, serpentine

Location

NTS 42A/13SE

Geary Township

East-central part of township.

Latitude	Longitude
48°50'12"	81°38'03"

Remarks

The occurrence is in an area of Early Precambrian felsic metavolcanics.

References

Pyke et al. (1973)

Map Reference

ODMNA Map P.739 (Bright and Hunt 1972b)

TALC

ALLERSTON DEPOSIT

Classification

Minor occurrence

Commodities

Talc, magnesite

Location

NTS 42A/6NE

Listed under MAGNETITE

CANADIAN MAGNESITE MINES DEPOSIT

Classification

Major occurrence

Commodities

Magnesite, talc

Location

NTS 42 A/6SW

Listed under MAGNESITE

HISLOP TOWNSHIP DEPOSIT

Classification

Major occurrence

Commodities

Gold, talc

Location

NTS 42A/8NW

Hislop Township, lot 1, concession III.

Latitude	Longitude
48°29'32"	80°16'58"

Remarks

The occurrence is in an area of Early Precambrian mafic flows and pyroclastic rocks. On this property there is a sharp contact between a syenite body and carbonate breccia. The carbonate breccia ranges from a chloritic to a felsic rock. South of this breccia there is chloritic breccia and talc-chlorite schist.

References

Prest (1957, p.45-47)

Map Reference

ODM Map P.832 (Lovell and Frey 1973e)

LADOUCEUR CLAIM

Classification

Major occurrence

Commodities

Gold, talc

Location

NTS 42A/9SW

Hislop Township, N1/2 lot 4, concession IV.

Latitude	Longitude
48°30'21"	80°18'38"

Remarks

Drilling on the property indicated an elongated body of hornblende syenite which varies greatly in width. Southwest of this syenite there is a broad zone of talc schist.

References

Prest (1957, p.47-48)

Map Reference

ODM Map P.832 (Lovell and Frey 1973e)

BEATTY TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos, talc

Location

NTS 42A/9SW

Listed under ASBESTOS

SHALLOW RIVER DEPOSIT

Classification

Minor occurrence

Commodities

Serpentine, talc

Location

NTS 42 A/10SW

Listed under SERPENTINE

CROMARTY (ACME OPTION) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, talc

Location

NTS 42A/11NE

Listed under PYRITE

TELLURIUM

MAISONVILLE TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Gold, tellurium

Location

NTS 42A/1NE

Maisonville Township, S1/2 lot 4, concession II.

Latitude	Longitude
48°12'21"	80°11'03"

Remarks

The occurrence is in an area of Early Precambrian mafic intrusive rocks, consisting mainly of gabbro and diorite.

References

Lovell (1971)

Map Reference

OGS Map P.876 (Ploeger et al. 1979)

TIN

KIDD CREEK MINE

Classification

Producer

Commodities

Zinc, copper, lead, cadmium, silver, tin

Location

NTS 42A/11NW

Kidd Township, lots 3 and 4, concession V.

Latitude	Longitude
48°41'30"	81°22'00"

Remarks

The orebody lies within a north-trending band of Early Precambrian, altered and partially brecciated rhyolite flows and pyroclastics within the Superior Province. A concordant zone of pyrite-bearing graphite and graphitic metasediments divides the orebody into north and south sections.

References

Bright (1969, p.18-19)

Shklanka (1969, p.121-122)

Map Reference

OGS Map P.486 (Hunt et al. 1980a)

TOURMALINE

JAMIESON PROPERTY

Classification

Minor occurrence

Commodities

Ilmenite, tourmaline

Location

NTS 42A/12SE

Robb Township

On Twenty-Six Mile Creek, 1/2 mile south of Kamiskotia Lake.

Latitude	Longitude
48°32'59"	81°37'58"

Remarks

The country rock is gabbro, which is cut by a number of aplite dikes and by younger diabase dikes. There is quartz and associated mineralized pyrite and chalcopyrite in the aplite. Tourmaline is present in the aplite but not in the veins.

References

Finley (1925, p.58)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

Assessment File Report T-328.

Map Reference

ODMNA Map P.694 (Middleton 1971)

ARSENIC

LAMPORT-LUMBERS DEPOSIT

Classification

Minor occurrence

Commodities

Gold, arsenic, nickel, antimony, berthierite

Location

NTS 42B/1NE

Sewell Township

3,000 feet south of Highway 101.

Latitude	Longitude
48°12'58"	82°00'45"

Remarks

The rocks in the area are pillowed mafic flows intruded by a 150-foot wide diabase dike. The flow rocks have been converted by strong shearing to dark green, rusty-weathered, chlorite-carbonate schist.

References

Milne (1972a, p.102)

Todd (1925a, p.14-15)

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

ASBESTOS

DUPONT DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42B/1NE

Penhorwood Township

3/4 mile south of Jehann Lake.

Latitude	Longitude
48°09'15"	82°06'28"

Remarks

The area is in a belt of Early Precambrian felsic to mafic metavolcanics and metasediments, southwest of the main Abitibi Belt. Magnetite and asbestos veining are present in an exposure of mineralogically layered tremolite-chlorite-serpentine rock. The asbestos is developed very locally and occurs generally as very thin thread veins, but some 3/16-inch long fibre is present. Magnetite veining is very plentiful.

References

Milne (1972a, p.73-74)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Dupont Fibre, Township Penhorwood, District Sudbury.

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

JEHANN LAKE DEPOSIT 1

Classification

Minor occurrence

Commodities

Asbestos, pyrrhotite, pyrite, graphite, chalcopyrite

Location

NTS 42B/1NE

Penhorwood Township

Latitude	Longitude
48°11'10"	82°05'57"

Remarks

The area is in a belt of Early Precambrian felsic to mafic metavolcanics and metasediments, southwest of the main Abitibi Belt. Among the intrusive rocks that cut this belt are serpentinized ultramafic rocks, in the form of conformable sheets, lens-shaped pipes or pencils. Two small outcrops of highly carbonatized serpentinite contain a minor amount of short fibre.

References

Milne (1972a, p.73)

Vos (1971, p.46)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Jehann, Township Penhorwood, District Sudbury.

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

MONTGOMERY LAKE DEPOSIT 1

Classification

Minor occurrence

Commodities

Asbestos, magnetite, pyrrhotite, pyrite

Location

NTS 42B/1NE

Penhorwood Township

North of Montgomery Lake.

Latitude	Longitude
48°08'01"	82°03'00"

Remarks

The property is in a belt of Early Precambrian felsic to mafic metavolcanics and metasediments, southwest of the main Abitibi Belt. Among the intrusive rocks that cut this belt are serpentinized ultramafic rocks. One small outcrop of carbonatized serpentinite contains a little asbestos fibre associated with a small shear zone.

References

Milne (1972a, p.74)

Vos (1971, p.46)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Montgomery Lake, Township Penhorwood, District Sudbury.

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

NAT RIVER DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42B/1NE

Penhorwood Township

1 mile southeast of Jehann Lake.

Latitude	Longitude
48°09'25"	82°05'30"

Remarks

The occurrence is in a belt of Early Precambrian felsic to mafic metavolcanics and metasediments, southwest of the main Abitibi Belt. Minor asbestos was found in an outcrop, which is cut by a small shear zone and is situated at the western end of a 1-1/2 mile long, northeast-trending, tremolitized serpentinite body.

References

Milne (1972a, p.73)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Nat River Fibre, Township Penhorwood, District Sudbury.

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

NIB YELLOWKNIFE DEPOSIT

Classification

Minor occurrence

Commodities

Gold, asbestos, arsenopyrite

Location

NTS 42B/1NE

Penhorwood Township

North of Jehann Lake.

Latitude	Longitude
48°10'40"	82°06'30"

Remarks

The occurrence is in an area of Early Precambrian mafic intrusive rocks consisting of tremolitic-actinolitic amphibolite and sheared amphibolite. The mineralization consists of arsenopyrite, disseminated in the adjacent amphibolite, and in fracture-filling quartz veins up to 1 inch wide.

References

Milne (1972a, p.106)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

File T-191.

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

REEVES MINE (EAST, WEST and "75" ZONES)

Classification

Past producer

Commodities

Asbestos

Location

NTS 42B/1NE

Reeves Township

Approximately 1 mile south of Highway 101, to the east of Nat River.

Latitude	Longitude
48°12'00"	82°04'45"
48°11'45"	82°05'30"
48°11'50"	82°04'40"

Remarks

The mine is in an area of Keewatin (Early Precambrian) mafic metavolcanics, cut by numerous asbestos-bearing fractures. The fibre-bearing zone has a minimum length of 2,200 feet and an average width of approximately 500 feet.

References

Milne (1972a, p.67-73)

Vos (1971, p.46-49)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Reeves, Township Reeves, District Sudbury.

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

SOUTH HANRAHAN LAKE - CRAWFORD LAKE DEPOSITS

Classification

Minor occurrence

Commodities

Asbestos, iron

Location

NTS 42B/1NE

Kenogaming Township

Along the southeast shore of Hanrahan Lake.

Latitude	Longitude
48°08'35"	82°00'15"
48°09'05"	82°00'10"

Remarks

These occurrences are in an area which is underlain by large serpentinite bodies that intrude felsic metavolcanics interbedded with local, thin iron formation bands. There is no mineralization according to drill holes but mapping revealed a number of small asbestos showings.

References

Milne (1972a, p.79)

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

KENOGAMING TOWNSHIP DEPOSITS

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42B/1NE

Kenogaming Township

Latitude	Longitude
48°08'33"	82°00'25"
48°08'47"	82°00'13"

Remarks

Within the serpentine rocks of the area, pale amber chrysotile asbestos of high quality has been found. The exposed fibre is in areas of small lateral extent; it occurs in narrow widths and the fibres are short.

References

Milne (1972a, p.82-83)

Map Reference

ODM Map P.465 (Milne 1968a)

HIGHWAY 101 DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos, graphite

Location

NTS 42B/1NE

Penhorwood Township

West of Highway 101.

Latitude	Longitude
48°11'00"	82°09'32"

Remarks

The occurrence is in an area of Early Precambrian detrital metasediments, possibly consisting of slate and argillite.

References

Milne (1972b)

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

PENHORWOOD TOWNSHIP DEPOSIT 1

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42B/1SE

Penhorwood Township

1/2 mile north of the CNR tracks.

Latitude	Longitude
48°06'50"	82°07'50"

Remarks

The occurrence is in an area of Early Precambrian ultramafic serpentinized intrusive rocks which are asbestos-bearing.

References

Milne (1972b)

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

BUTLER LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42B/5NW

Rennie Township

Northwest shore of Butler Lake.

Latitude	Longitude
48°25'50"	83°55'00"

Remarks

The deposit is in Proterozoic ultramafic intrusive rocks. A small pit has been blasted into a poorly exposed outcrop of serpentinized pyroxenite uncovering yellow-green to dark green waxy serpentinite carrying stringers of cross-fibre asbestos. The average length of the fibres is about 0.06 inches, with some up to 0.25 inches long.

References

Riley (1971, p.38)

Ontario Ministry of Natural Resources Files

Resident Geologist's Office, Sault Ste. Marie

Assessment Files

Map Reference

ODMNA Map P.672 (Thurston et al. 1971a)

BARITE

CRYDERMAN (RAVENA) DEPOSIT

Classification

Major occurrence

Commodities

Barite

Location

NTS 42B/1SE

Penhorwood Township

Northeast of Horwood Lake Station.

Latitude	Longitude
48°05'15"	82°09'10"

Remarks

Guillet (1963) gave the following description of the occurrence: "Barite is present as a fracture-filling in a ridge of pink Algoman granite. The granite intrudes Keewatin basic volcanic rocks, and blocks of the Keewatin are common in the granite. Beds of iron formation and other sedimentary rocks are also present in the Keewatin group. Both Keewatin and Algoman rocks are cut by dikes of Keweenawan diabase."

References

Guillet (1963, p.15-16)

Milne (1972a, p.84-86)

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

GRAPHITE

CANICO DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, pyrrhotite, pyrite

Location

NTS 42B/1NW

Keith Township

Latitude	Longitude
48°10'10"	82°22'00"
48°10'18"	82°19'30"
48°09'25"	82°16'07"

Remarks

The occurrences are in an area of Early Precambrian mafic to intermediate metavolcanics, consisting of basalt to andesite flows and porphyritic flows, layered amphibolite, diorite and gabbro (coarse-grained flows or intrusions) and migmatized mafic metavolcanics (10-25 percent granitic material). One diamond drill hole revealed graphite-schist at the 173-foot level.

References

Thurston et al. (1977, p.168-169)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Keith Township, Diamond Drilling Reports 17, 18 and 31.

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

GARNET GOLD MINES DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, iron, molybdenum, chalcopyrite

Location

NTS 42B/1NW

Keith Township

2 miles south of Keith Lake.

Latitude	Longitude
48°08'50"	82°18'35"

Remarks

The occurrence is in an area of Early Precambrian mafic to intermediate metavolcanics. There are basalt to andesite flows and porphyritic flows (massive to foliated). Drilling reports indicated that quartz carbonate veins are not found to the west. South of the main showing there are some metasediments and a wide band of rhyolitic rocks.

References

Prest (1951, p.40)

Thurston et al. (1977, p.168-169)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Timmins

File T-41.

KUKATUSH (PALOMAR LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, magnetite, pyrrhotite

Location

NTS 42B/1NW

Keith Township

South of Palomar Lake.

Latitude	Longitude
48°09'50"	82°15'35"

Remarks

The occurrence is in an area of Early Precambrian mafic to intermediate metavolcanics. One drill log revealed hard green serpentinite with disseminated magnetite throughout and cut by fractures containing bright green serpentine. Another area has dark grey-coloured gabbroic-looking serpentinite with disseminated magnetite which is cut by talc stringers.

References

Thurston et al. (1977, p.168-169)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Keith Township, Diamond Drilling Report 15.

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

FOLEYET DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite, sphalerite, graphite

Location

NTS 42B/1NW

Foleyet Township

2 miles southwest of Foleyet.

Latitude	Longitude
48°13'25"	82°28'40"

Remarks

The occurrence is in an area of Early Precambrian mafic to intermediate metavolcanics with massive to foliated, basalt to andesite flows and porphyritic flows. Drill holes intersected narrow interflow graphitic slate beds.

References

Thurston et al. (1977, p.158-159)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Foleyet Township, Technical Survey File 63.1440, Diamond Drilling Report 10.

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

MUSKEGO LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite, sphalerite, graphite

Location

NTS 42B/1NW

Ivanhoe Township

1 mile south of Muskego Lake.

Latitude	Longitude
48°09'15"	82°25'30"

Remarks

The occurrence is in an area of Early Precambrian mafic to intermediate metavolcanics. Diamond drilling indicated graphitic slate bands accompanied by large amounts of pyrrhotite and pyrite and minor amounts of sphalerite and chalcopyrite.

References

Thurston et al. (1977, p.166-167)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Ivanhoe Township, Technical Survey File 63.1811.

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

JEHANN LAKE DEPOSIT 1

Classification

Minor occurrence

Commodities

Asbestos, pyrrhotite, pyrite, graphite, chalcopyrite

Location

NTS 42B/1NE

Listed under ASBESTOS

KALBROOK DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, galena, gold

Location

NTS 42B/1NE

Reeves Township

Southeast corner of township.

Latitude	Longitude
48°11'40"	82°02'10"

Remarks

An easterly trending belt of Early Precambrian rocks, principally metavolcanics, has been intruded by Early Precambrian plutons of amphibolite and serpentinite and northwest-trending Keweenawan diabase dikes. The outcrop consists of rusty quartz rubble with visible gold, and is believed to be float. No quartz veining was found.

References

Milne (1972a, p.91)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Technical Survey File 63.107.

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Kalbrook, Township Reeves, District of Sudbury.

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

KUKATUSH (NORTHEAST KEITH TOWNSHIP) DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, pyrite

Location

NTS 42B/1NE

Keith Township

Northeast corner of township.

Latitude	Longitude
48°10'35"	82°13'45"

Remarks

The occurrence is in an area of Early Precambrian mafic to intermediate metavolcanics, consisting of massive to foliated, basalt to andesite flows and porphyritic flows.

References

Thurston et al. (1977, p.168-169)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Keith Township, Diamond Drilling Report 13.

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

HIGHWAY 101 DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos, graphite

Location

NTS 42B/1NE

Listed under ASBESTOS

REEVES TOWNSHIP (SOUTHWEST) DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, pyrite

Location

NTS 42B/1NE

Reeves Township

Southwest corner of township.

Latitude	Longitude
48°11'40"	82°12'05"

Remarks

The occurrence is in an area of Early Precambrian mafic to intermediate metavolcanics, which are light coloured and contain chlorite and tremolite.

References

Milne (1972b)

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

JEHANN LAKE DEPOSIT 2

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 42B/1NE

Penhorwood Township

Just south of Jehann Lake.

Latitude	Longitude
48°09'40"	82°07'00"

Remarks

The occurrence is in an area of mafic to intermediate, light coloured chlorite-tremolite metavolcanics. One diamond drill hole revealed graphite.

References

Milne (1972b)

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

PENHORWOOD TOWNSHIP DEPOSIT 2

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 42B/1NE

Penhorwood Township

Approximately 3/4 mile north of Jehann Lake.

Latitude	Longitude
48°10'45"	82°06'55"

Remarks

The occurrence is in an area of Early Precambrian mafic intrusive rocks, consisting of tremolitic-actinolitic amphibolite.

References

Milne (1972b)

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

MONTGOMERY LAKE DEPOSIT 2

Classification

Minor occurrence

Commodities

Pyrrhotite, graphite

Location

NTS 42B/1NE

Penhorwood Township

On Montgomery Lake property.

Latitude	Longitude
48°08'00"	82°03'50"

Remarks

The occurrence is in an area of Early Precambrian felsic to intermediate metavolcanics. Diamond drill holes revealed that the iron formations on the property are usually mineralized with pyrite and pyrrhotite.

References

Milne (1972a, p.74)

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

PENHORWOOD TOWNSHIP DEPOSIT 3

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 42B/1NE

Penhorwood Township

Latitude	Longitude
48°08'48"	82°05'00"

Remarks

The occurrence is in an area of Early Precambrian late felsic intrusive rocks, consisting of leucocratic trondhjemite.

References

Milne (1972b)

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

AREA MINES DEPOSIT 1 (IVANHOE RIVER)

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 42B/9NW

BelfordTownship

1 mile north of Ivanhoe River.

Latitude	Longitude
48°38'00"	82°19'50"

Remarks

There are no outcrops on this property, but a drill hole revealed talc-chlorite schist with graphitic sections.

References

Bennett (1969, p.21)

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

KEEVIL (BELFORD CREEK) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite, sphalerite, graphite

Location

NTS 42B/9NW

Belford Township

On Belford Creek.

Lstitude	Longitude
48°39'40"	82°21'40"

Remarks

The occurrence is in an area of mafic metavolcanics. There are no outcrops on the property. According to drill logs, the mafic metavolcanics are intercalated with slaty metasediments and gabbro. There are patches and seams of pyrite and pyrrhotite.

References

Bennett (1969, p.23)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Belford Township, Diamond Drilling Report 15.

KEEVIL (EAST-CENTRAL BELFORD TOWNSHIP) DEPOSIT

Classification

Minor occurrence

Commodities

Copper, graphite

Location

NTS 42B/9NW

Belford Township

East-central part of township.

Latitude	Longitude
48°38'40"	82°19'28"

Remarks

"The bedrock is mainly felsic metavolcanics with intercalated mafic metavolcanics and thin beds of graphitic slate. Seams and stringers of pyrite and pyrrhotite were intersected in the slaty sections...." (Bennett 1969).

References

Bennett (1969, p.23)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Belford Township, Diamond Drilling Report 13.

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

FRYINGPAN LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, graphite

Location

NTS 42B/9NW

Lisgar Township

2 miles west of Fryingpan Lake.

Latitude	Longitude
48°43'05"	82°27'00"

Remarks

The occurrence is in an area of Early Precambrian pelitic and psammitic granulites (pyroxene-garnet-quartz-feldspar granulite). The sulphide mineralization consists of pyrite and pyrrhotite. Due to the strength of the conductors during testing, graphite is suspected to be present.

References

Thurston et al. (1977, p.172-173)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Lisgar Township, Technical Survey File 63.1436.

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

AREA MINES DEPOSITS 2 (BELFORD TOWNSHIP)

Classification

Minor occurrence

Commodities

Graphite, pyrrhotite, pyrite

Location

NTS 42B/9SW

Belford Township

Southwest and south-central parts of township.

Latitude	Longitude
48°35'20"	82°24'10"
48°35'50"	82°17'45"

Remarks

The occurrences are in an area of Early Precambrian felsic metavolcanics and metasediments. One drill core consisted mainly of biotite-quartz-feldspar schist with garnetiferous sections. Narrow graphitic zones contain up to 50 percent pyrite and pyrrhotite over 2 to 5 inch widths. Another test hole encountered gabbro and mafic metavolcanics but no significant mineralization.

References

Bennett (1969, p.21)

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

AREA MINES DEPOSIT 3 (BELFORD TOWNSHIP)

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite, graphite

Location

NTS 42B/9SW

Belford Township

Southwest quarter of township.

Latitude	Longitude
48°37'00"	82°23'25"

Remarks

The occurrence is in an area of Early Precambrian intermediate to ultramafic intrusive rocks. One drill hole revealed biotite-quartz-feldspar schist over most of its length. Stringers of pyrite along fractures in sections of black argillite were found, but no mineralization of economic interest.

References

Bennett (1969, p.21)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Belford Township, Diamond Drilling Report 11.

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

KEEVIL (NOVA TOWNSHIP) DEPOSITS

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, sphalerite, chalcopyrite, graphite

Location

NTS 42B/9SW

Nova Township

North-central part of township.

Latitude	Longitude
48°33'25"	82°22'30"
48°34'15"	82°22'25"

Remarks

Drill logs revealed zones of massive pyrite-pyrrhotite mineralization up to a length of 14 feet. The surrounding rocks are phyllitic, banded, felsic metavolcanics and metasediments cut by Matachewan-type diabase dikes.

References

Bennett (1969, p.24)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Nova Township, Technical Survey File 63.1419.

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

OKE TOWNSHIP (WEST-CENTRAL) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, graphite

Location

NTS 42B/16NE

Oke Township

West-central part of township.

Latitude	Longitude
48°55'00"	82°01'50"

Remarks

The occurrence is in an area of Early Precambrian mafic to intermediate metavolcanics. Test surveys revealed four parallel anomalies running in an east-west direction. An ultramafic sill is suggested to be the reason for the strongest anomaly, while two of the weaker anomalies are thought to be caused by serpentinized shear zones or by narrow concentrations of sulphides and magnetite.

References

Thurston et al. (1977, p.278-279)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Oke Township, Technical Survey File 2.2518.

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

KEEVIL (PROPERTIES 20 AND 21) DEPOSITS

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, graphite

Location

NTS 42B/16SW

Watson Township

North part of township.

Latitude	Longitude
48°49'00"	82°22'40"
48°50'00"	82°17'50"

Remarks

The occurrences are in areas of Early Precambrian melanocratic granulite and pelitic and psammitic granulites. An electromagnetic survey outlined areas that are probably narrow lens-like beds of disseminated magnetite. The latter beds contain pyrite, graphite and some pyrrhotite.

References

Thurston et al. (1977, p.190-191)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Watson Township, Technical Survey Files 63.1590 and 63.1592.

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

MAGNETITE

KEITH TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 42B/1NW

Keith Township

Latitude	Longitude
48°10'20"	82°22'45"

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

MONTGOMERY LAKE DEPOSIT 1

Classification

Minor occurrence

Commodities

Asbestos, magnetite, pyrrhotite, pyrite

Location

NTS 42B/1NE

Listed under ASBESTOS

HELLYER TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite, pyrite

Location

NTS 42B/2SW

Hellyer Township

Latitude	Longitude
48°00'20"	82°46'00"

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

CARTY TOWNSHIP DEPOSITS

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite, magnetite

Location

NTS 42B/2SE

Carty Township

Latitude	Longitude
48°07'00"	82°37'35"
48°07'25"	82°37'00"
48°07'20"	82°36'00"

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

LANG TOWNSHIP DEPOSIT 1

Classification

Minor occurrence

Commodities

Magnetite, ilmenite

Location

NTS 42B/4NW

Lang Township

Latitude	Longitude
48°13'28"	83°51'05"

Map Reference

ODMNA Map P.672 (Thurston et al. 1971a)

CHARLESBOIS-CRISTAKOS DEPOSITS

Classification

Minor occurrence

Commodities

Magnetite, ilmenite, pyrite

Location

NTS 42B/5SW

Marsh Township

There are two occurrences a short distance north of the east end of Ash Lake.

Latitude	Longitude
48°16'25"	83°55'15"
48°16'05"	83°53'30"

Remarks

The rock in this area is hornblende schist containing some pyrite and is cut by small dikes of magnetite and pyrite. In 1934 there was some development work and two test pits dug but the occurrence could not be located during the 1971 field season.

References

Bennett (1978b, p.42)

Burwash (1937, p.38)

LANG TOWNSHIP DEPOSIT 2

Classification

Minor occurrence

Commodities

Magnetite, ilmenite

Location

NTS 42B/5SW

Lang Township

Latitude	Longitude
48°15'55"	83°52'00"
48°15'40"	83°51'45"

Map Reference

ODMNA Map P.672 (Thurston et al. 1971a)

NIOBIUM

NEMEGOSENDA LAKE PROSPECT

Classification

Major occurrence

Commodities

Niobium, uranium, thorium

Location

NTS 42B/3SE

Chewett Township, lots 8 and 9, concession VI

Latitude	Longitude
48°00'15"	83°04'20"

Remarks

In the Nemegosenda Lake area, Early Precambrian granitic gneisses of the Superior structural province are intruded by a carbonatite-alkalic complex of Late Precambrian age. The complex is a roughly circular intrusion composed of a predominantly leucocratic alkaline syenite core surrounded by a metasomatic aureole composed of a syenite contact zone, a pyroxenitic zone, and a red alkaline fenite zone.

References

Ferguson (1971, p.41-42)

Parsons (1961, p.33-50)

Robertson (1968, p.68-69)

Map Reference

ODMNA Map P.672 (Thurston et al. 1971a)

PYRITE

CANICO DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, pyrrhotite, pyrite

Location

NTS 42B/1NW

Listed under GRAPHITE

KUKATUSH (PALOMAR LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, magnetite, pyrrhotite, pyrite

Location

NTS 42B/1NW

Listed under GRAPHITE

FOLEYET DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite, sphalerite, graphite

Location

NTS 42B/1NW

Listed under GRAPHITE

MUSKEGO LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite, sphalerite, graphite

Location

NTS 42B/1NW

Listed under GRAPHITE

FOLEYET TOWNSHIP DEPOSITS

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite, sphalerite

Location

NTS 42B/1NW

Foleyet Township

Latitude	Longitude
48°13'00"	82°27'20"
48°12'40"	82°26'05"
48°12'00"	82°25'15"

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

MUSKEGO TOWNSHIP DEPOSITS

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite, sphalerite

Location

NTS 42B/1NW

Muskego Township

Latitude	Longitude
48°11'35"	82°22'25"
48°13'45"	82°19'15"
48°13'30"	82°15'05"

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

JEHANN LAKE DEPOSIT 1

Classification

Minor occurrence

Commodities

Asbestos, pyrrhotite, pyrite, graphite, chalcopyrite

Location

NTS 42B/1NE

Listed under ASBESTOS

KUKATUSH DEPOSIT (NORTHEAST KEITH TOWNSHIP)

Classification

Minor occurrence

Commodities

Graphite, pyrite

Location

NTS 42B/1NE

Listed under GRAPHITE

MONTGOMERY LAKE DEPOSIT 1

Classification

Minor occurrence

Commodities

Asbestos, magnetite, pyrrhotite, pyrite

Location

NTS 42B/1NE

Listed under ASBESTOS

REEVES TOWNSHIP (SOUTHWEST) DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, pyrite

Location

NTS 42B/1NE

Listed under GRAPHITE

HORWOOD TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 42B/1SW

Horwood Township

Latitude	Longitude
48°01'40"	82°15'45"

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

HELLYER TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite, pyrite

Location

NTS 42B/2SW

Listed under MAGNETITE

CARTY TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite, magnetite

Location

NTS 42B/2SE

Listed under MAGNETITE

GINN DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 42B/5NW

Rennie Township

The property lies between Alister and Quarry Lakes.

Latitude	Longitude
48°24'10"	83°55'55"

References

Riley (1971, p.41-42)

Map Reference

ODMNA Map P.672 (Thurston et al. 1971a)

WESSON DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 42B/5NW

Rennie Township

West of Stephenson Lake.

Latitude	Longitude
48°22'30"	83°55'05"

References

Riley (1971, p.44)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Technical Survey File 63.124.

CHARLESBOIS-CRISTAKOS DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite, ilmenite, pyrite

Location

NTS 42B/5SW

Listed under MAGNETITE

LYSANDER DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 42B/5SW

Rennie Township

14 claims southeast of Stephenson Lake, their southern border being the southern township line.

Latitude	Longitude
48°22'05"	83°54'25"

References

Riley (1971, p.42)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Technical Survey File 63.131.

LANG TOWNSHIP DEPOSIT 3

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 42B/5SW

Lang Township

Latitude	Longitude
48°16'30"	83°51'00"

Map Reference

ODMNA Map P.672 (Thurston et al. 1971a)

BUSHY TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, chalcopyrite

Location

NTS 42B/6SW

Bushy Township

Latitude	Longitude
48°21'25"	83°25'00"

Map Reference

ODMNA Map P.672 (Thurston et al. 1971a)

LLOYD TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite

Location

NTS 42B/6SE

Lloyd Township

Latitude	Longitude
48°19'37"	83°11'40"

Map Reference

ODMNA Map P.672 (Thurston et al. 1971a)

KEEVIL (BELFORD CREEK) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite, sphalerite, graphite

Location

NTS 42B/9NW

Listed under GRAPHITE

FRYINGPAN LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, graphite

Location

NTS 42B/9NW

Listed under GRAPHITE

WATSON TOWNSHIP DEPOSIT 1

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite

Location

NTS 42B/9NW

Watson Township

Latitude	Longitude
48°43'00"	82°19'40"

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

MONTCALM TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 42B/9NE

Montcalm Township

Latitude	Longitude
48°40'20"	82°07'30"
48°40'00"	82°07'25"

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

AREA MINES DEPOSITS 2 (BELFORD TOWNSHIP)

Classification

Minor occurrence

Commodities

Graphite, pyrrhotite, pyrite

Location

NTS 42B/9SW

Listed under GRAPHITE

AREA MINES DEPOSIT 3 (BELFORD TOWNSHIP)

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite, graphite

Location

NTS 42B/9SW

Listed under GRAPHITE

KEEVIL (NOVA TOWNSHIP) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, sphalerite, chalcopyrite, graphite

Location

NTS 42B/9SW

Listed under GRAPHITE

AREA MINES DEPOSIT 4 (BELFORD TOWNSHIP)

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite, sphalerite

Location

NTS 42B/9SW

Belford Township

Latitude	Longitude
48°35'35"	82°15'30"

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

OKE TOWNSHIP (WEST-CENTRAL) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, graphite

Location

NTS 42B/16NE

Listed under GRAPHITE

KEEVIL DEPOSIT (PROPERTIES 20 & 21)

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, graphite

Location

NTS 42B/16SW

Listed under GRAPHITE

WATSON TOWNSHIP DEPOSIT 2

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 42B/16SW

Watson Township

Latitude	Longitude
48°45'45"	82°21'35"

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

SILICA

HORWOOD MINE

Classification

Past producer

Commodities

Silica

Location

NTS 42B/1SE

Penhorwood Township

East of Horwood Lake, 300 feet south of CNR track.

Latitude	Longitude
48°05'00"	82°09'40"

Remarks

A massive quartz vein strikes N25E and dips steeply west. At its widest point it is 40-50 feet wide and diminishes in size over a length of 1/2 mile. The quartz is massive, barren and pink-white in colour. After a short exposure to the sun it alters to opaque white (Guillet 1965, unpublished report).

References

Milne (1972a, p.88-89)

Map Reference

ODMNA Map P.673 (Thurston et al. 1971b)

TALC

STEETLEY INDUSTRIES LIMITED (PENHORWOOD MINE)

Classification

Producer

Commodities

Talc

Location

NTS 42B/1NE

Penhorwood Township

1 mile south of Reeves asbestos mine.

Latitude	Longitude
48°11'25"	82°05'55"

Remarks

Diorite, peridotite and gabbro have locally intruded volcanic rocks. Highly altered (serpentinized and carbonatized) ultrabasic intrusive rocks form narrow sill-like bodies and small plugs. Talc-magnesite ore occurs in contact with the ultrabasic intrusive rocks. The target for production is between 20,000 and 30,000 tons per year. Mining is done in the summer months only, while milling takes place year round. Processing is done in the old Hollinger mill building in Timmins.

References

Tihor and Hunt (1979, p.57)

Map Reference

ODMNA Map 2231 (Milne 1972b)

ODMNA Map P.673 (Thurston et al. 1971b)

TITANIUM

MISSINAIBI LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Iron, titanium, ilmenite

Location

NTS 42B/5SW

Lang Township

Southwest side of Missinaibi Lake.

Latitude	Longitude
48°15'10"	83°51'40"

Remarks

This occurrence of titaniferous magnetite consists of fine- to medium-grained massive ilmenite and magnetite in a metavolcanic-metasedimentary sequence. The ore lies within Early Precambrian hornblende schists and gneisses.

References

Shklanka (1968, p.347-348)

Thurston et al. (1977, p.253-257)

Map Reference

ODMNA Map P.672 (Thurston et al. 1971a)

NTS 42C WHITE RIVER SHEET

ARSENIC

MILDRED LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Gold, arsenic

Location

NTS 42C/2SE

Chabanel Township

2 miles north of Mildred Lake.

Latitude	Longitude
48°06'20"	84°41'10"

Remarks

Mineralization appears to occur in a silicified shear zone along the northwest contact zone of a northeast-striking diabase dike. The mineralization consists of veinlets and disseminations of heavy pyrite and arsenopyrite.

Ontario Ministry of Natural Resources Files

Resident Geologist's Office, Sault Ste. Marie

Report by H.O. Lien for The Algoma Central and Hudson Bay Railway Company.

Map Reference

ODM Map 2220 (Milne et al. 1972)

ASBESTOS

LENA LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42C/2SE

Chabanel Township

On the westernmost island of a group of three islands in the northern part of Lena Lake.

Latitude	Longitude
48°03'12"	84°41'00"

Remarks

The asbestos noted is a white fibrous mineral that is rather brittle and splintery; the characteristics of true chrysotile (such as silky fibres and a cross-fibre structure) are absent. The mineral occurs with a dark green amphibole in irregular slips and small shears in peridotite. No significant asbestos mineralization was found.

Ontario Ministry of Natural Resources Files

Resident Geologist's Office, Sault Ste. Marie

Report by T.N. Macauley, 1962.

Map Reference

ODM Map 2220 (Milne et al. 1972)

NORANDA EXPLORATIONS DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42C/8NE

Meath Township

Northeast corner of the township.

Latitude	Longitude
48°25'45"	84°01'35"

Remarks

Sparse fibres of asbestos, averaging about 0.06 inches long, occur in the southeast end of a body of dark green to black serpentinized pyroxenite.

References

Riley (1969, p.71-72)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Meath Township, Technical Survey Report 2-452.

Map Reference

ODMNA Map P.640 (Leahy et al. 1971)

WESTFIELD DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42C/8NE

Meath Township

1 mile south of Easy Lake.

Latitude	Longitude
48°23'15"	84°02'30"

Remarks

The occurrence contains cross-fibre asbestos in a medium grey-green serpentinized pyroxenite. These fibres average about 0.06 inches long with a few up to 0.5 inches, and occur with minor magnetite in irregular fractures spaced at intervals of between 4 to 6 inches.

References

Riley (1969, p.71-72)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Meath Township, Technical Survey Report 63.1940.

Map Reference

ODM Map 2220 (Milne et al. 1972)

OBA RIVER DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42C/16NE

Irving Township

West bank of Oba River, just south of the northern township line.

Latitude	Longitude
48°55'40"	84°06'50"

Remarks

The occurrence is in an area of Early Precambrian granitic rocks. There are a few small veins of asbestos in an altered peridotite dike.

References

Maynard (1930, p.125)

BERYL

NAMEIGOS RIVER DEPOSIT

Classification

Minor occurrence

Commodities

Beryl

Location

NTS 42C/10NW

Strickland Township

North of the Nameigos River.

Latitude	Longitude
48°38'45"	84°48'45"

Remarks

Minor beryl was found in a pegmatite dike in a narrow band of metavolcanics (amphibolite, amphibolite schist, tuff, mafic sedimentary rocks) which in turn is surrounded by Early Precambrian granitic rock.

References

Fenwick (1967, p.6,10,13)

Giblin (1968a, p.18)

Map Reference

ODM Map P.476 (Giblin 1968b)

LITHIUM

MOSAMBIK LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Lithium

Location

NTS 42C/10NE

Mosambik Township

2 miles northwest of Mosambik Lake.

Latitude	Longitude
48°43'15"	84°34'35"

Remarks

A calcite-quartz-feldspar vein was reported to contain considerable lepidolite but it assayed only a trace of lithium.

References

Giblin (1968a, p.16)

Map Reference

ODM Map P.476 (Giblin 1968b)

MAGNETITE

SIMPSON-CARNEY TOWNSHIPS DEPOSITS

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 42C/9NW

Simpson Township

Latitude	Longitude
48°37'30"	84°20'50"

Carney Township

Latitude	Longitude
48°43'35"	84°17'35"
48°49'23"	84°15'40"

Map Reference

ODM Map P.913 (Siragusa 1973b)

CARNEY TOWNSHIP DEPOSITS 1

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 42C/9NE

Carney Township

Latitude	Longitude
48°44'10"	84°14'15"
48°44'50"	84°13'50"
48°42'30"	84°13'35"

Map Reference

ODM Map P.913 (Siragusa 1973b)

DOUCETT TOWNSHIP DEPOSITS

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 42C/10NE

Doucett Township

Latitude	Longitude
48°39'00"	84°39'35"
48°38'45"	84°39'00"

Map Reference

ODM Map P.913 (Siragusa 1973b)

CADDY CREEK DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 42C/14SW

Johns Township

West of Caddy Creek.

Latitude	Longitude
48°45'15"	85°17'25"

Map Reference

ODM Map 2129 (Fenwick 1966a)

ERMINE TOWNSHIP DEPOSIT 1

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 42C/16NW

Ermine Township

Latitude	Longitude
48°52'40"	84°19'00"

Map Reference

ODM Map P.813 (Siragusa 1973a)

ERMINE TOWNSHIP DEPOSIT 2

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 42C/16NW

Ermine Township

Latitude	Longitude
48°54'35"	84°18'45"

Map Reference

ODM Map P.813 (Siragusa 1973a)

CARNEY TOWNSHIP DEPOSIT 2

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 42C/16SW

Carney Township

Latitude	Longitude
48°46'30"	84°16'25"

Map Reference

ODM Map P.913 (Siragusa 1973b)

CARNEY TOWNSHIP DEPOSIT 3

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 42C/16SE

Carney Township

Latitude	Longitude
48°46'50"	84°14'55"
48°47'25"	84°14'45"

Map Reference

ODM Map P.913 (Siragusa 1973b)

NEPHELINE

HERMAN LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Nepheline

Location

NTS 42C/7SE

Finan Township

1 mile northwest of Herman Lake.

Latitude	Longitude
48°18'25"	84°30'15"

Remarks

The syenite lies on either side of a small creek that empties into the northwest corner of the lake. Cancrinite and nephelite are common in certain areas and are recognizable by the pitted nature of the outcrop.

References

Bruce (1942, p.28-29)

Gledhill (1927, p.59)

TALC

FITZPATRICK CREEK DEPOSIT

Classification

Minor occurrence

Commodities

Talc

Location

NTS 42C/9SE

Acton Township

East-southeast of Dibben Lake, on Fitzpatrick Creek.

Latitude	Longitude
48°31'45"	84°05'55"

Remarks

A small (20-foot wide) sill of serpentine with some talc was located and appeared to be associated with the biotite granite and gneisses. The sill was traced for 200 feet; it is cut off at the north end by granite. The talc is in the north part of the sill and occurs over a 20 foot length.

Ontario Ministry of Natural Resources Files

Resident Geologist's Office, Sault Ste. Marie

Report by MacIntoch for the Algoma Central Railway.

Map Reference

ODM Map 2220 (Milne et al. 1972)

TITANIUM

SAND RIVER DEPOSIT

Classification

Minor occurrence

Commodities

Iron, titanium

Location

NTS 42C/16NW

Lizar Township

Near west shore of Kabinakagami Lake.

Latitude	Longitude
48°53'58"	84°28'15"

Remarks

There are bands of disseminated to massive magnetite which occur in granite gneiss. A grab sample assayed 6.36 percent TiO_2.

References

Giblin (1968a, p.9-15)

Shklanka (1968, p.31)

Siragusa (1975a, p.67-68)

NTS 42D SCHREIBER SHEET

AMETHYST

HALONEN DEPOSITS

Classification

Major occurrence

Commodities

Amethyst, fluorite, barite

Location

NTS 42D/13NE

Yesno Township

Latitude	Longitude
48°53'45"	87°38'25"
48°53'25"	87°36'45"

Remarks

Fluorite, amethyst and barite are associated with calcite veins that occupy fault fissures, in dikes and sills of Keweenawan diabase and older Precambrian rocks.

References

Guillet (1964a, p.55)

Vos (1976, p.66)

Map Reference

ODM Map 2232 (Carter et al. 1973)

ASBESTOS

CANADIAN JOHNS-MANVILLE DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42D/16NE

About 2 miles west of Goodchild Lake.

Latitude	Longitude
48°53'40"	86°14'00"

Remarks

The showing is contained in a serpentinite intrusion. Drilling indicated peridotite with asbestos veins up to 1/4 inch wide.

References

Milne (1967, p.52-53)

Map Reference

ODM Map P.494 (Milne 1968b)

BARITE

HALONEN DEPOSITS

Classification

Major occurrence

Commodities

Amethyst, fluorite, barite

Location

NTS 42D/13NE

Listed under AMETHYST

CERIUM

PORT MUNRO DEPOSIT

Classification

Minor occurrence

Commodities

Niobium, cerium, uranium, thorium

Location

NTS 42D/16SW

McCoy Township

Approximately 5 miles northwest of Marathon Station.

Latitude	Longitude
48°46'25"	86°17'30"

Remarks

The deposit occurs as syenite dikes, cutting mafic intrusive rocks. The dikes contain irregular cracks which are filled by coarse-grained green pyroxene. Mineralization is associated with pyroxene.

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Port Munro, McCoy Township, District Thunder Bay.

Map Reference

ODM Map 2220 (Milne et al. 1972)

CLAY

PIC RIVER DEPOSIT

Classification

Minor occurrence

Commodities

Clay

Location

NTS 42D/9NW

Pic Township

West bank of Pic River.

Latitude	Longitude
48°40'15"	86°16'50"

Remarks

The deposit occurs as glaciolacustrine varved clays and bedded silty sands of Pleistocene age. A 14-foot section is exposed at this location.

References

Guillet (1977, p.108)

PIC RIVER (NORTH) DEPOSIT

Classification

Minor occurrence

Commodities

Clay

Location

NTS 42D/16NW

Approximately 38 miles northeast of Terrace Bay.

Latitude	Longitude
48°54'50"	86°17'30"
48°52'40"	86°18'00"

Remarks

The deposits occur as thick beds of glaciolacustrine varved clays and bedded silty fluvial clays.

References

Guillet (1977, p.102-106)

Map Reference

ODM Map 2098 (Milne 1966)

BERIN CREEK DEPOSIT

Classification

Minor occurrence

Commodities

Clay

Location

NTS 42D/16NE

Approximately 42 miles northeast of Terrace Bay.

Latitude	Longitude
48°56'55"	86°13'00"

Remarks

The deposit occurs as glaciolacustrine varved clays and bedded silty fluvial clays. The clay fires to an attractive tan-cream to buff-white product of moderate hardness. Sample 63-650 was taken at this location.

References

Guillet (1977, p.102-106)

Map Reference

ODM Map 2098 (Milne 1966)

PIC RIVER DEPOSIT (O'NEILL TOWNSHIP)

Classification

Minor occurrence

Commodities

Clay

Location

NTS 42D/16SW

O'Neill Township

Approximately 6 miles northeast of Marathon Station.

Latitude	Longitude
48°47'00"	86°17'30"

Remarks

The deposit occurs as thick beds of glaciolacustrine varved clays and bedded fluvial clays. The clay fires to an attractive cream-tan to cream-white product of moderate hardness. Sample 63-651 was taken at this location.

References

Guillet (1977, p.102-106)

Map Reference

ODM Map 2098 (Milne 1966)

FLUORITE

HALONEN DEPOSITS

Classification

Major occurrence

Commodities

Amethyst, fluorite, barite

Location

NTS 42D/13NE

Listed under AMETHYST

PAYS PLAT BAY DEPOSIT

Classification

Major occurrence

Commodities

Fluorite

Location

NTS 42D/13NE

Yesno Township

About 2 miles north of Pays Plat Bay.

Latitude	Longitude
48°54'20"	87°34'05"

Remarks

Fluorite is found in some of the silver-bearing veins; it is also encrusted on the walls of fractures in granite.

References

Guillet (1964a, p.55)

Map Reference

ODM Map 2232 (Carter et al. 1973)

KILLRAINE TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Fluorite

Location

NTS 42D/14SW

Killraine Township

Latitude	Longitude
48°50'35"	87°25'20"

Remarks

Mineralization is associated with calcite veins and is encrusted on the walls of fractures in granite in this area.

References

Guillet (1964a, p.55)

MAGNETITE

JACKFISH-MIDDLETON DEPOSITS

Classification

Minor occurrence

Commodities

Titaniferous magnetite

Location

NTS 42D/15SE

Grain and Walsh Townships

Latitude	Longitude
48°48'05"	86°38'20"

Remarks

Scattered, flat dipping zones of titaniferous magnetite, which trend east, are found within gabbro and syenite facies of the Port Coldwell Alkalic Complex.

References

Shklanka (1968, p.411-412)

Map Reference

ODM Map P.360 (Pye 1966a)

BAMOOS LAKE PROSPECT

Classification

Major occurrence

Commodities

Titaniferous magnetite, vanadium

Location

NTS 42D/16SW

Southeast of Bamoos Lake, about 7 miles northeast of Marathon.

Latitude	Longitude
48°48'55"	86°19'15"
48°49'08"	86°19'10"

Remarks

The showings consist of lenses of titaniferous magnetite within grey-brown hornblende syenite.

References

Shklanka (1968, p.423)

Map Reference

ODM Map 2220 (Milne et al. 1972)

COUBRAN LAKE PROSPECT

Classification

Major occurrence

Commodities

Copper, titaniferous magnetite

Location

NTS 42D/16SW

North of Coubran Lake, approximately 11 miles northwest of Marathon Station.

Latitude	Longitude
48°52'16"	86°29'30"

Remarks

Magnetite-rich lenses and sheets within a gabbroic facies of the Port Coldwell alkalic complex are estimated to contain 50,000 tons per vertical foot averaging 30 percent Fe and 0.22 percent Cu.

References

Shklanka (1968, p.423-428; 1969, p.319-320)

Map Reference

ODM Map 2220 (Milne et al. 1972)

NEPHELINE

DENISON (PIC ISLAND) DEPOSIT

Classification

Minor occurrence

Commodities

Nepheline

Location

NTS 42D/10NE

Pic Island

Approximately 10 miles west of Marathon.

Latitude	Longitude
48°42'25"	86°36'00"

Remarks

Nepheline syenite is found throughout the area. The nepheline in the older varieties of syenite shows greasy lustre and is associated with and included by various "ferromagnesian" minerals.

References

Puskas (1967, p.88-90)

DENISON (COLDWELL TOWNSHIP) DEPOSIT

Classification

Minor occurrence

Commodities

Nepheline

Location

NTS 42D/15SE

Coldwell Township

About 8 miles northwest of Marathon.

Latitude	Longitude
48°45'50"	86°31'00"

Remarks

Mineralization occurs in syenites throughout the area. The nepheline in the older varieties of syenite shows greasy lustre and is associated with and included by the various "ferromagnesian" minerals.

References

Puskas (1967, p.88-90)

Map Reference

ODM Map 2232 (Carter et al. 1973)

DENISON (MCCOY TOWNSHIP) DEPOSIT

Classification

Minor occurrence

Commodities

Nepheline

Location

NTS 42D/16SW

McCoy Township

Latitude	Longitude
48°47'00"	86°29'20"

Remarks

Mineralization occurs in syenites of the Port Coldwell Complex. The nepheline is associated with and included by various "ferromagnesian" minerals.

References

Puskas (1967, p.88-90)

Map Reference

ODM Map 2310 (MNR 1974)

NIOBIUM

PORT MUNRO DEPOSIT

Classification

Minor occurrence

Commodities

Niobium, cerium, uranium, thorium

Location

NTS 42D/16SW

Listed under CERIUM

STONE

COLD SPRING QUARRY

Classification

Past producer

Commodities

Stone

Location

NTS 42D/9NW

Pic Township, S lot 20, concession XI

Latitude	Longitude
48°43'55"	86°22'45"

Remarks

Black "granite" of high quality is found at this location. The "dark" laurvikites are made up primarily of subhedral laths of perthite. Stone was quarried and 20 carloads were shipped to Minnesota in 1931.

References

Hewitt (1964b, p.35-41)

PENINSULA QUARRY

Classification

Past producer

Commodities

Stone

Location

NTS 42D/9NW

Pic Township

Approximately 175 miles east of Thunder Bay.

Latitude	Longitude
48°45'00"	86°23'50"
48°43'45"	86°23'10"

Remarks

The black "granite" is an augite syenite of Precambrian age. The syenite is dense and medium textured throughout the quarries. In 1930 stone was shipped in 26 carloads from Peninsula.

References

Hewitt (1964b, p.35-41)

LAKE SUPERIOR STONE SYNDICATE DEPOSIT

Classification

Minor occurrence

Commodities

Stone

Location

NTS 42D/16SW

McCoy Township

Latitude	Longitude
48°45'30"	86°23'20"

Remarks

The "granite" is an augite syenite of Precambrian age. It is dense and medium textured throughout and of high quality.

References

Puskas (1967, p.88-90)

THORIUM

PORT MUNRO DEPOSIT

Classification

Minor occurrence

Commodities

Niobium, cerium, uranium, thorium

Location

NTS 42D/16SW

Listed under CERIUM

TITANIUM

AMERANIUM DEPOSIT

Classification

Minor occurrence

Commodities

Titanium, copper

Location

NTS 42D/16SW

About 14 miles west of Marathon.

Latitude	Longitude
48°49'20"	86°29'10"

Remarks

Mineralization occurs in Precambrian gabbro. A spectrographic analysis of a grab sample indicated 1.0 percent copper and 1.0 percent titanium.

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Ameranium Mines, Latitude 48°45' Longitude 86°15', District Thunder Bay.

Map Reference

ODM Map 2220 (Milne et al. 1972)

ANACONDA DEPOSITS

Classification

Major occurrence

Commodities

Copper, iron, titanium

Location

NTS 42D/16SW

About 6 miles northeast of Marathon.

Latitude	Longitude
48°48'00"	86°19'40"
48°46'50"	86°19'30"

Remarks

The showings occur in the banded olivine gabbro unit of the Port Coldwell Alkalic Complex. Locally, concentrations of sulphides are scattered throughout the olivine unit.

References

Milne (1967, p.43)

Map Reference

ODM Map 2220 (Milne et al. 1972)

NTS 42E LONGLAC SHEET

AMETHYST

GALARNEAU MINE

Classification

Past producer

Commodities

Amethyst

Location

NTS 42E/4NE

North of Kabamichigama Lake.

Latitude	Longitude
49°13'45"	87°39'30"

Remarks

Amethyst occurs in a vuggy breccia zone which is about 200 feet long. The zone strikes N65W and dips 73° southwest. Veinlets of amethyst 1/2 to 1 inch long occur along the brecciated zone.

References

Carter (1975, p.20-21)

Map Reference

ODM Map 2232 (Carter et al. 1973)

THORSTEINSON DEPOSIT

Classification

Major occurrence

Commodities

Amethyst

Location

NTS 42E/4SE

Northeast shore of Nagunagisic Lake, within 1-1/2 miles of East Cypress River.

Latitude	Longitude
49°00'59"	87°43'50"

Remarks

Pink granite is crossed by veins with pockets and vugs containing amethyst. Five trenches have been dug at this location.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Thunder Bay

42E/4SE, David Thorsteinson File.

BERYLLIUM

PLUTON/URANIUM MINES DEPOSIT

Classification

Minor occurrence

Commodities

Beryllium

Location

NTS 42E/5NE

Southern tip of an island at the southeast end of Parks Lake.

Latitude	Longitude
49°26'30"	87°36'40"

Remarks

Mineralization occurs in Early Precambrian felsic igneous and metamorphic rocks.

References

ODM Map 2232 (Carter et al. 1973)

GRAPHITE

LITTLE CHARON LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 42E/9SE

Southeast of Caramat

Latitude	Longitude
49°34'35"	86°01'30"

Remarks

Graphite mineralization is present within the biotite-quartz-feldspar migmatite.

References

Coates (1968a, p.16)

Map Reference

ODMNA Map 2202 (Innes and Ayres 1971)

LITHIUM

CAMP LITHIUM DEPOSIT

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 42E/5NW

South shore of pond along river connecting Jean and Parole Lakes.

Latitude	Longitude
49°22'50"	87°56'45"

Remarks

A spodumene-bearing pegmatite, cutting across Early Precambrian metasediments, is exposed in two outcrops over a length of 125 feet and measures 7 to 12 feet thick. Crude mineralogical zoning is evident. In the central zone, surface exposures average 25-30 percent unaltered spodumene, indicating 1-1/2 percent lithia content.

References

Pye (1965, p.65)

Map Reference

ODM Map 2232 (Carter et al. 1973)

CONWAY (NORLAND & NO. 4) DEPOSITS

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 42E/5NW

Between Little Postagoni River and the Electric Power Transmission Line to the east.

Norland Deposit

Latitude	Longitude
49°27'05"	87°59'45"

No. 4 Deposit

Latitude	Longitude
49°26'45"	87°59'38"

Remarks

Algoman (Early Precambrian) spodumene-bearing pegmatites cutting Early Precambrian metasediments are numerous in the area. The Norland dike has been traced intermittently over 1,200 feet and is up to 12 feet wide. Selected surface samples were found to contain 1.87 percent Li_2O. The No. 4 dike was traced intermittently over 600 feet, and ranges up to 6 feet in width. Surface samples contain up to 2.28 percent Li_2O.

References

Pye (1965, p.69)

Map Reference

ODM Map 2232 (Carter et al. 1973)

DUNNING DEPOSIT

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 42E/5NW

Near road about 3,000 feet south of the east end of Palace Lake.

Latitude	Longitude
49°25'25"	87°59'58"

Remarks

Several spodumene-bearing dikes are found in the area, cutting Early Precambrian metasediments in a zone that extends over a distance of about 2,000 feet. Two of these dikes were examined and found to be 4-5 feet wide, fine-grained with spodumene crystals up to 1/2 inch in length but low in lithia content.

References

Pye (1965, p.69-70)

Map Reference

ODM Map 2232 (Carter et al. 1973)

FOSTER DEPOSIT

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 42E/5NW

Between Peanut Lake and northeastern end of Lake Jean.

Latitude	Longitude
49°24'50"	87°51'57"

Remarks

The deposit is found in a small sill-like body of massive, pink, biotite granite in Early Precambrian metasediments. To the east, the dike is exposed for 250 feet, averaging about 30 feet in thickness; and, to the west, the dike splits into a number of thin, parallel tongues, 1 to 8 feet wide, separated by bands of granite from a few inches to 3 feet wide. The unaltered spodumene makes up 10-15 percent of the deposit and is typically fine- to medium-grained. Drill hole logs indicate less than 1 percent lithia.

References

Pye (1965, p.70)

Map Reference

ODM Map 2232 (Carter et al. 1973)

GILES DEPOSIT

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 42E/5NW

On Treaure Island, Lake Jean.

Latitude	Longitude
49°22'50"	87°53'56"

Remarks

A pegmatite dike, traced for 600 feet with width ranging from 13 to 50 feet, strikes parallel to the country rock (biotite schist or gneiss) but dips at a steeper angle and is therefore more like a sill than a dike. The deposit is zoned with a spodumene-rich section enclosed by low-grade muscovite-quartz-feldspar pegmatite. Surface samples indicate an average 1.25 percent lithia across an average width of 25 feet. Drill hole records indicate 0.08 to 0.06 percent Li_2O.

References

Pye (1965, p.71-72)

Map Reference

ODM Map 2232 (Carter et al. 1973)

POMACE LAKE (NO. 1) & PAROLE LAKE DEPOSITS

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 42E/5NW

No. 1 deposit is exposed along a winter road east of Pomace Lake and south of Pomace Creek. Parole Lake dike crosses Parole Creek and is exposed about 50 feet west of Parole Lake.

No. 1 Deposit

Latitude	Longitude
49°23'50"	87°57'05"

Parole Lake Deposit

Latitude	Longitude
49°23'40"	87°55'58"

Remarks

The No. 1 deposit, a lithium-bearing dike, exposed for about 315 feet and averaging 15-20 feet in width, contains medium-grained green spodumene associated with fine quartz and white feldspar. Thin quartz-spodumene veins cross the main or central segment of this dike. Narrow quartz and muscovite-bearing quartz veins interrupt the dike at irregular intervals and small bodies of aplite are found in the northeast segment.

The Parole Lake deposit is a cross-banded dike, exposed only in a few isolated areas over about 100 feet in length and 12 feet in width. Lenses and irregular-shaped bands of white potassic feldspar, with small amounts of fine-grained quartz and a little muscovite make up almost half the deposit. The matrix of the rock

separating the bands consists of 50 percent spodumene, 25 percent quartz, 15-20 percent feldspar and 5-10 percent muscovite. It is estimated that the pegmatite dike contains 1,689,000 tons of material, averaging 1.30 percent Li_2O to a vertical depth of 1,100 feet with the possibility of grade and width improving with depth.

References

Mulligan (1965, p.57-58)

Pye (1965, p.73-77)

Map Reference

ODM Map 2232 (Carter et al. 1973)

LEW DEPOSIT

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 42E/5NW

Between Peanut Lake and northeastern end of Lake Jean.

Latitude	Longitude
49°24'30"	87°52'30"

Remarks

The deposit has been traced on the surface for 108 feet, and is 8-10 feet wide. It strikes northeast, obliquely across the Early Precambrian metasediments, with a steep southerly dip, and has several transverse, east-dipping faults. The spodumene is pale green, unaltered, and makes up 15-20 percent of the deposit.

References

Pye (1965, p.78-79)

Map Reference

ODM Map 2232 (Carter et al. 1973)

POWERLINE DEPOSIT

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 42E/5NW

Along the Ontario Hydro power line, about 7,500 feet east of the north end of Postagoni Lake.

Latitude	Longitude
49°24'52"	87°59'58"

Remarks

The dike, cutting Early Precambrian metasediments, was traced by stripping for a length of 250 feet. The deposit is irregular in that it has numerous inclusions of metasediments and has an average strike of N40-45E with a mean width of about 5 feet. The lithium content of the deposit is low.

References

Pye (1965, p.102)

Map Reference

ODM Map 2232 (Carter et al. 1973)

TRANS DEPOSIT

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 42E/5NW

Along north shore of Lake Jean, south of eastern side of Parole Lake.

Latitude	Longitude
49°22'57"	87°55'25"

Remarks

A spodumene-bearing dike, cutting Early Precambrian metasediments, is exposed about 800 feet from the lakeshore along its line of strike (N50W) and has been traced intermittently on the surface for 500 feet; the width ranges from a few inches at the northwest end to about 7 feet near the southeast end. The dike appears to be associated with aplite as noted with other spodumene-bearing pegmatite dikes in the area.

References

Pye (1965, p.103)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Thunder Bay

Goldale Mines Ltd.

Map Reference

ODM Map 2232 (Carter et al. 1973)

AUMACHO RIVER MINES DEPOSIT

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 42E/5SW

North end Blay Lake, about 4 miles southwest of Georgia Lake.

Latitude	Longitude
49°18'05"	88°59'55"

Remarks

A sill-like body of massive to faintly foliated, grey to pinkish grey, white-weathering granitic rock intersects Early Precambrian metasediments. In the sill-like body are three lithium-bearing pegmatites (Brink or No. 1, No. 2 and No. 5 deposits). The Brink deposit, exposed along the north shore of Blay Lake, has an average exposed width of 13 feet and can be traced for 215 feet in a direction of N20W. The dike pinches and splits irregularly and ranges from 5 to 12 feet in width. Coarse-grained spodumene crystals make up 25 percent of the deposit. The deposit does not exhibit any mineralogical or textural zoning except for a 1/2 to 1 inch wide chill zone of quartz, muscovite and feldspar.

The No. 2 deposit lies 20-25 feet below the flatter portions of the Brink deposit and the No. 5 deposit was located in diamond-drill holes about 900 feet east of the surface exposure of the Brink deposit. Diamond drilling of the Brink and No. 2 deposits indicated ore reserves to be about 759,475 tons of pegmatite carrying 1.65 percent Li_2O. No. 5 deposit may contain an additional 96,000 tons, with an average grade of 1.5 percent Li_2O.

References

Mulligan (1965, p.60)

Pye (1965, p.62-64)

Map Reference

ODM Map 2232 (Carter et al. 1973)

CARROT LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 42E/5SW

The deposit is exposed along the western shore of Carrot Lake, about 1 mile west-southwest of Georgia Lake.

Latitude	Longitude
49°18'25"	87°56'03"

Remarks

The pegmatite dike, in Early Precambrian metasediments, strikes east for a known length of about 200 feet and is exposed across an average width of about 50 feet. The dike contains about 20 percent unaltered spodumene, as prismatic crystals up to 18 inches by 4 inches. It is possible this is the erosional remnant of a flat dike, 30-40 feet thick.

References

Pye (1965, p.66)

Map Reference

ODM Map 2232 (Carter et al. 1973)

EAST GEORGIA LAKE - ESKER BAY DEPOSIT

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 42E/5SW

On the southern shoreline of the middle arm of the eastern end of Georgia Lake, within 1 mile northeast of Esker Bay (Georgia Lake).

Latitude	Longitude
49°19'35"	87°51'47"

Remarks

Four spodumene-bearing pegmatite dikes, striking parallel to the shoreline, are found in Early Precambrian metasediments.

Map Reference

ODM Map 2232 (Carter et al. 1973)

GEORGIA DEPOSIT

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 42E/5SW

About 400 feet southeast of the south end of a beaver pond (Joan Lake) and about 3/4 mile south of Abner Lake.

Latitude	Longitude
49°17'05"	87°57'30"

Remarks

A group of eleven glacial erratics, ranging in size from about 3 by 3 by 3 to 15 by 15 by 10 feet, are found in the area. These have a similar appearance to the pegmatites about 1 mile to the northeast. Small muscovite pegmatite dikes and patches cutting the metasediments in this area do not contain lithium minerals.

References

Pye (1965, p.70-71)

Map Reference

ODM Map 2232 (Carter et al. 1973)

NEWKIRK DEPOSIT

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 42E/5SW

About 1 mile west of Georgia Lake, near Slush Lake.

Latitude	Longitude
49°19'25"	87°56'55"

Remarks

An Algoman (Early Precambrian) pegmatite dike, cutting metasediments, striking N65-70W and dipping 30N, is exposed over a length of 60 feet with widths up to 20 feet. From the outcrop, the dike has been traced easterly in diamond-drill holes for about 500 feet. Phenocrysts of spodumene and white potassic feldspar occur in a matrix of feldspar, quartz, muscovite and apatite. The dike is crudely zoned with a spodumene-rich core and muscovite-rich, spodumene-poor wall-zones. The grade of the deposit is low due to this zonal structure.

References

Pye (1965, p.96-97)

Map Reference

ODM Map 2232 (Carter et al. 1973)

NIEMI DEPOSIT

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 42E/5SW

About 1 mile south of the west end of Georgia Lake.

Latitude	Longitude
49°17'57"	87°54'05"

Remarks

The pegmatite dike, in Early Precambrian metasediments, is a thin, flat erosional remnant, up to 30.5 feet thick and not more than about 100 feet in horizontal width. The dike was traced in surface outcrops and drill holes for a length of 420 feet parallel to the strike of the metasediments which strike N75E and dip vertically. Spodumene is confined to the most easterly 100-foot section and narrow zones along the north and south contacts to the west.

References

Pye (1965, p.97)

Map Reference

ODM Map 2232 (Carter et al. 1973)

ISLAND DEPOSIT, JACKPOT DEPOSITS, POINT DEPOSIT, SALO DEPOSIT AND SOUTHWEST DEPOSITS (ONTARIO LITHIUM COMPANY LIMITED)

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 42E/5SW

Island Deposit is in a reef in the western part of Georgia Lake, and the other deposits are found within the area 2 miles southwest of Georgia Lake.

Island Deposit

Latitude	Longitude
49°19'10"	87°54'35"

Jackpot Deposits

Latitude	Longitude
49°18'10"	87°55'50"

Point Deposit

Latitude	Longitude
49°18'45"	87°54'50"

Salo Deposit

Latitude	Longitude
49°17'57"	87°56'45"

Southwest Deposits

Latitude	Longitude
49°17'45"	87°56'55"

Remarks

The area is mainly underlain by metasediments which strike N70E to east and dip steeply north except in a few localities where they dip steeply south. Thin dikes and sills of feldspar porphyry and a prominent dike of porphyritic diabase cut the metasediments. One flat-lying diabase sheet overlies the metasediments and a second sheet of equigranular diabase cuts the metasediments 100-115 feet below the surface.

The Island deposit underlies a roughly circular-shaped reef with a diameter of about 75 feet, consisting almost entirely of coarse-textured pegmatite made up of potassic and plagioclase feldspars, quartz, spodumene and subordinate muscovite with a little apatite and red garnet. A small amount of beryl is reported to be present. Two lithium-bearing pegmatite dikes (Jackpot deposits) are located about 6,000 feet southwest of Georgia Lake and about 2,000 feet north of Marrow Lake. Drilling indicated that the No. 1 deposit represents erosional remnants, 20-30 feet thick, of a flat sheet of pegmatite, and has little significance. The No. 2 dike, containing 2 million tons with an average grade of 1.09 percent Li_2O, is 36 feet wide on average over the strike length of 700 feet.

Medium- to coarse-grained crystals of potassic feldspar and spodumene in a matrix of feldspar, quartz, subordinate muscovite and accessory apatite, make up the Point pegmatite which is exposed in an outcrop along the shore at the southwest end of Georgia Lake. The pegmatite was traced irregularly westward for about 600 feet with the thickness ranging from 25 to 60 feet. The lithia content is very low, the best value being 0.96 percent Li_2O over 15 feet.

The Salo deposit outcrops along a road about 1-1/2 miles southwest of Georgia Lake and has been traced in a direction of N80E for 350 feet with widths up to 30 feet. Spodumene content of the pegmatite dike averages about 25 percent. The pegmatite terminates in metasediments about 23-28 feet below the surface and is just an erosional remnant of a larger pegmatite structure of little economic importance. Four spodumene-bearing pegmatite dikes, which make up the Southwest deposits, are found about 2,000 feet southwest of the Salo deposit. These are too small to be of economic importance.

References

Mulligan (1965, p.58-59)

Pye (1965, p.97-102)

Map Reference

ODM Map 2232 (Carter et al. 1973)

VEGAN DEPOSITS (NO. 1 ZONE AND NO. 2 ZONE)

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 42E/5SW

About 1 mile northwest of Claus Lake and 1-1/2 miles west of Georgia Lake.

No. 1 Zone

Latitude	Longitude
49°19'45"	87°57'40"

No. 2 Zone

Latitude	Longitude
49°19'35"	87°57'20"

Remarks

Two Algoman (Early Precambrian) spodumene-bearing pegmatite dikes, also containing feldspar, quartz and muscovite, intrude Early Precambrian metasediments. Sericitization has occurred in the outer regions of the dikes causing the formation of some crude internal zoning.

The No. 1 Zone has been traced in outcrops over a length of about 700 feet and averages 15 feet in width. The pegmatite is coarse-grained. Spodumene is most abundant midway along the dike.

The No. 2 Zone is an extension of the Newkirk lithium deposit to the east. This deposit is a tabular body, averaging 16 feet in width over a traced distance of 2,000 feet. The dike has a crude internally-zoned structure similar to the No. 1 Zone dike in which the central section is rich in spodumene and is enclosed by ill-defined wall zones containing little or no spodumene but abundant muscovite. Feldspar, quartz and muscovite make up the remainder of the dike.

References

Pye (1965, p.103-105)

Map Reference

ODM Map 2232 (Carter et al. 1973)

KOSHMAN DEPOSIT

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 42E/6NW

Just west of Namewaminikan River at the north end of Gathering Lake.

Latitude	Longitude
49°28'57"	87°27'45"

Remarks

A pegmatite dike, containing up to 15 percent spodumene, and having an irregular outline, cuts Precambrian granite and mica schist.

References

Hewitt (1967a, p.48)

Map Reference

ODM Map 2232 (Carter et al. 1973)

STANDARD DEPOSIT

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 42E/6NW

Just east of Namewaminikan River at the north end of Gathering Lake.

Latitude	Longitude
49°29'25"	87°27'10"

Remarks

A spodumene-bearing pegmatite dike, striking N08E and dipping 65-85W and cutting Precambrian schist and granite, has an exposed strike length of 120 feet with thickness ranging from 12 to 14 feet. Pale green spodumene crystals up to 8 inches long are found along the west wall in an irregular zone 1 to 4 feet wide. The mineralized portion of the dike contains about 5 to 10 percent spodumene.

References

Hewitt (1967a, p.48)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Gathering Lake, District Thunder Bay, Latitude 49°15', Longitude 87°15'.

Map Reference

ODM Map 2232 (Carter et al. 1973)

ODM Map P.360 (Pye 1966b)

NIOBIUM

KENTRON-BLANK LAKES DEPOSIT

Classification

Minor occurrence

Commodities

Niobium

Location

NTS 42E/1NW

Latitude	Longitude
49°10'50"	86°27'10"

Remarks

The showing is found in nepheline syenite pegmatites. The pegmatites occur as regular dike-like bodies or irregular sinuous veins. When the pegmatites were sampled the radioactive mineral content was low.

References

Coates (1970, p.18-20)

Map Reference

ODM Map 2220 (Milne et al. 1972)

NEW INSCO DEPOSIT

Classification

Minor occurrence

Commodities

Niobium

Location

NTS 42E/2SE

About 1 mile northwest of Prairie Lake.

Latitude	Longitude
49°01'50"	86°42'45"

Remarks

The showing occurs in the Prairie Lake Alkalic Complex. Seventy-eight grab samples taken over the complex averaged 1.2 pounds U_3O_8 and 7.2 pounds Nb_2O_5 per ton.

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Prairie Lake Report, Latitude 49°00' Longitude 86°30', District Thunder Bay.

Map Reference

ODM Map 2232 (Carter et al. 1973)

CHIPMAN LAKE DEPOSITS

Classification

Minor occurrence

Commodities

Niobium

Location

NTS 42E/16NW,NE

O'Meara Township

Southern end of Chipman Lake.

Latitude	Longitude
49°56'30"	86°12'45"
49°56'05"	86°16'12"
49°56'25"	86°16'52"

Remarks

Mineralization occurs in the intrusive complex which consists mainly of a large alkalic syenite body.

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Chipman Lake, O'Meara Township, District Thunder Bay.

Map Reference

ODMNA Map 2202 (Innes and Ayres 1971)

ODM Map P.551 (Innes 1969)

PYRITE

MOSHKINABI LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrrhotite, pyrite, copper

Location

NTS 42F/4NE

Roberta Township

Northwest corner of township

Latitude	Longitude
49°07′51″	89°33′52″
49°07′26″	89°33′51″

Map Reference

ODMNA Map 2219 (Giguere 1972)

NTS 42G KAPUSKASING SHEET

APATITE

CARGILL COMPLEX (CONTINENTAL COPPER MINES)

Classification

Major occurrence

Commodities

Copper, nickel, apatite, phosphate, vermiculite, rare earths

Location

NTS 42G/07SE

Latitude	Longitude
49°17'42"	82°50'45"

Remarks

The Cargill carbonatite complex is located in an area of hybrid quartz diorite gneisses and amphibolites of Early Precambrian age.

A tentative open-pit mine, designed in connection with preliminary feasibility studies is estimated to contain a probable phosphate-bearing deposit of 62.5 million tonnes at an average grade of 19.6 percent P_2O_5 and less than 0.3 percent MgO (Sandvik and Erdosh 1977, p.95).

References

Sandvik and Erdosh (1977, p.90-96)

Vos (1981, p.224-229)

Map Reference

ODMNA Map P.452 (Satterly 1970)

LITHIUM

VILLENEUVE DEPOSIT

Classification

Minor occurrence

Commodities

Lithium

Location

NTS 42G/5NE

Lowther Township, lot 7, concession IV

Latitude	Longitude
49°29'45"	83°43'30"

Remarks

"... The rocks in the vicinity consist of an exposure of pale pink pegmatitic granite, 150 feet by 300 feet, in contact with hornblende granite. Within the pegmatitic granite is a body of quartz-feldspar pegmatite which strikes N38°W and ranges in width from 3 to 75 feet over an exposed length of 300 feet. It appears to pinch to the northwest and is covered to the southeast. The dip is not evident. Two concentrations of lepidolite were noted within the pegmatite ...." (M.E. Hurst, Ontario Department of Mines, unpublished report 1939).

References

Hewitt (1967a, p.48)

Map Reference

ODM Map 2166 (Bennett, Brown, George, and Leahy 1969)

MAGNETITE

NANSEN TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 42G/8SE

Nansen Township

Latitude	Longitude
49°16'55"	82°12'35"

Map Reference

ODM Map 2166 (Bennett, Brown, George, and Leahy 1969)

SWEET TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 42G/15NW

Sweet Township

Latitude	Longitude
49°52'40"	82°55'40"

Map Reference

ODM Map 2166 (Bennett, Brown, George, and Leahy 1969)

FRYATT TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 42G/15NW

Fryatt Township

Latitude	Longitude
49°58'30"	82°46'35"

Map Reference

ODM Map 2166 (Bennett, Brown, George, and Leahy 1969)

MCKNIGHT TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 42G/15NE

McKnight Township

Latitude	Longitude
49°58'10"	82°39'25"

Map Reference

ODM Map 2166 (Bennett, Brown, George, and Leahy 1969)

HANEY TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 42G/15NE

Haney Township

Latitude	Longitude
49°58'35"	82°37'50"

Map Reference

ODM Map 2166 (Bennett, Brown, George, and Leahy 1969)

FLECK TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 42G/15SW

Fleck Township

Latitude	Longitude
49°48'35"	82°55'45"
49°48'28"	82°53'00"

Map Reference

ODM Map 2166 (Bennett, Brown, George, and Leahy 1969)

CLAY TOWNSHIP DEPOSIT 1

Classification

Major occurrence

Commodities

Iron, magnetite

Location

NTS 42G/16SE

Clay Township

Latitude	Longitude
49°49'15"	82°03'05"

Map Reference

ODM Map 2166 (Bennett, Brown, George, and Leahy 1969)

HOPKINS TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 42G/16SE

Hopkins Township

Latitude	Longitude
49°48'30"	82°08'00"
49°49'55"	82°07'30"

Map Reference

ODM Map 2166 (Bennett, Brown, George, and Leahy 1969)

MOWBRAY TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 42G/16SE

Mowbray Township

Latitude	Longitude
49°51'25"	82°06'50"
49°51'20"	82°06'10"

Map Reference

ODM Map 2166 (Bennett, Brown, George, and Leahy 1969)

CLAY TOWNSHIP DEPOSIT 2

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 42G/16SE

Clay Township

Latitude	Longitude
49°49'10"	82°03'45"

Map Reference

ODM Map 2166 (Bennett, Brown, George, and Leahy 1969)

HOWELLS TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 42G/16SE

Howells Township

Latitude	Longitude
49°51'57"	82°02'50"
49°51'40"	82°01'55"

Map Reference

ODM Map 2166 (Bennett, Brown, George, and Leahy 1969)

PHOSPHATE

CARGILL COMPLEX (CONTINENTAL COPPER MINES)

Classification

Major occurrence

Commodities

Copper, nickel, apatite, phospate, vermiculite, rare earths

Location

NTS 42G/07SE

Listed under APATITE

VERMICULITE

CARGILL COMPLEX (CONTINENTAL COPPER MINES)

Classification

Major occurrence

Commodities

Copper, nickel, apatite, phospate, vermiculite, rare earths

Location

NTS 42G/07SE

Listed under APATITE

NTS 42I MOOSE RIVER SHEET

GYPSUM

MOOSE RIVER (WAIT ISLAND) DEPOSIT

Classification

Minor occurrence

Commodities

Gypsum

Location

NTS 42I/14NE

Ebbitt Township

Exposures occur along southern bank of Moose River and to northeast

Latitude	Longitude
50°52'50"	81°11'40"
50°53'19"	81°10'14"

Remarks

The outcrops consist of 10-15 feet of gypsum-limestone breccia which overlie 4 feet of wavy-bedded, resinous-brown and white, coarsely recrystallized selenitic gypsum. Underlying this is massive, medium-grained, white gypsum, containing numerous "eyes" and healed fractures of recrystallized brown selenite and minor thin limey laminae.

References

Bennett et al. (1966)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Murray Island Gypsum, Township Canfield, District Cochrane.

Map Reference

ODM Map 2171 (Bennett, Brown, George and Guillet 1969)

MOOSE RIVER (MURRAY ISLAND) DEPOSIT

Classification

Minor occurrence

Commodities

Gypsum

Location

NTS 42I/14SW,SE

Canfield and Carroll Townships

Exposures occur in both banks of the Moose River.

Latitude	Longitude
50°48'54"	81°17'56"
50°49'49"	81°17'30"
50°49'30"	81°16'20"

Remarks

Angular blocks of gypsum, selenite and limestone averaging 1 foot in size are loosely cemented in a fine-grained, grey, clastic aggregate of gypsum and carbonate. This lies on a smooth undulating surface of wavy-banded brown selenite and white gypsum which in turn passes down abruptly into a massive fine- to medium-grained white zone having the typical coarse colloform structure. Gypsum breccia is the most common feature here.

References

Guillet (1964b, p.53-58)

Map Reference

ODM Map 2171 (Bennett, Brown, George and Guillet 1969)

LIME

CORAL RAPIDS DEPOSIT

Classification

Minor occurrence

Commodities

Lime

Location

NTS 42I/4NE

Pitt Township

1 mile east of Coral Rapids, Abitibi River.

Latitude	Longitude
50°13'00"	81°39'30"

Remarks

At Coral Rapids, limestones of the Abitibi River and Moose River Formations form cliffs about 40 feet high, extending for approximately 300 yards on both sides of the river. The rock is largely composed of corals and stromatoporoids.

References

Dyer (1929, p.68)

WILLIAMS ISLAND DEPOSIT

Classification

Minor occurrence

Commodities

Lime

Location

NTS 42I/5NE

Hobson Township

Williams Island, Abitibi River.

Latitude	Longitude
50°24'10"	81°34'05"

Remarks

The limestone of the Abitibi River Formation is of high quality. The limestone on Williams Island is exposed by erosion but the flanks are formed by the shales of the Long River Formation, dipping generally northeast at varying angles from 5 to 35 degrees.

References

Dyer (1929, p.37,68)

MAGNETITE

STRINGER CREEK DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 42I/6NE

Approximately 1 mile west of Stringer Creek.

Latitude	Longitude
50°23'30"	81°02'50"

Map Reference

ODM Map 37p (Dyer 1928)

NIOBIUM

VALENTINE TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Niobium

Location

NTS 42I/5SE

Valentine Township

1 mile east of Abitibi River.

Latitude	Longitude
50°15'15"	81°38'40"

Remarks

Diamond drill cores revealed carbonatites interbanded with syenitic rocks between the depths of 410 and 500 feet, and 1,738 and 1,995 feet. They underlie Paleozoic sedimentary rocks and overburden.

References

Ferguson (1971, p.45)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Valentine, Township Valentine, District Cochrane.

CONSOLIDATED MORRISON DEPOSIT

Classification

Major occurrence

Commodities

Niobium

Location

NTS 42I/15SE

25 miles south of Moose Factory on South Bluff Creek.

Latitude	Longitude
50°50'07"	80°37'55"

Remarks

The occurrence is part of a Precambrian carbonatite complex. The carbonatite is dike-like and ranges in width from 350 to 800 feet dipping 75 to 85°E with a general strike of N20W. The Precambrian rocks are part of the Kapuskasing Granulite Complex and are overlain by 40 to 110 feet of Paleozoic rocks.

References

Bright (1969, p.23-24)

Ferguson (1971, p.33-34)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Consolidated Morrison, Latitude 51°45' Longitude 80°30', District of Cochrane

NTS 42J SMOKY FALLS SHEET

APATITE

MARTISON COMPLEX

Classification

Major occurrence

Commodities

Niobium, phosphate, titaniferous magnetite, apatite, rare earths

Location

NTS 42J/06SW

About 80 km north-northeast of Hearst.

Latitude	Longitude
50°15'00"	83°15'00"

Remarks

The Martison carbonatite complex appears on Map P.452 (Satterly 1970) as two aeromagnetic anomalies, with centres approximately 2.4 km apart. Estimates of preliminary reserves are 140 million tons of 20 percent P_2O_5, 0.35 percent Nb_2O_5, and as yet undetermined content of rare earth minerals.

References

Sage (1979, p.73)

Vos (1982, p.224)

Map Reference

ODMNA Map P.452 (Satterly 1970)

CLAY

NORTHERN ONTARIO CHINA CLAY COMPANY DEPOSIT

Classification

Major occurrence

Commodities

Silica, kaolin, lignite, fireclay

Location

NTS 42J/1NE

Kipling Township

Nine claims on the east shore of the Mattagami River, immediately north of Long Rapids.

Latitude	Longitude
50°09'30"	82°12'30"

Remarks

The clay beds are almost horizontal and lens-like and their colour varies laterally. The deepest diamond drill hole, collared at 70 feet above river level, intersected silica sand - kaolinite clay from 69 to 162 feet, which is the bottom of the hole. Clay occurs at three different levels.

References

Dyer (1929, p.55-62)

Telford et al. (1975, p.45-52)

SMOKY FALLS REFRACTORY COMPANY DEPOSIT

Classification

Past producer

Commodities

Silica, kaolin, lignite, fireclay

Location

NTS 42J/1NE

Kipling Township

Twelve claims west of the Mattagami River, just north of the HEPC Reserve, Long Rapids.

Latitude	Longitude
50°09'30"	82°13'45"

Remarks

The property is underlain by 20 to 30 feet of refractory clay. The overburden, which on the average is 42 feet deep, consists in part of Cretaceous silica sand and kaolin.

References

Dyer (1929, p.55-62)

Telford et al. (1975, p.45-52)

ALGOCEN NO. 1 AND NO. 2 (COAL CREEK) DEPOSITS

Classification

Major occurrences

Commodities

Silica, kaolin, lignite, fireclay

Location

NTS 42J/2NW

McBrien Township

No. 1 Deposit is on the south shore of the Missinaibi River and No. 2 Deposit is about 2 miles to the north, along the shores of the Pivabiska River.

Latitude	Longitude
50°10'45"	82°58'30"
50°12'30"	82°59'20"

Remarks

Lignite is found as thin beds associated with unconsolidated quartz sands and kaolin clays of Cretaceous age. In surface exposures of the silica sand - kaolin material, prominent bedding and cross-bedding features can be seen. Tests have indicated glass sand and filler grade kaolin clay to be present.

References

Vos (1975, p.52-55)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Coal Creek, Township McBrien, District Cochrane.

Map Reference

ODM Map P.396 (Bennett et al. 1967)

SOWESKA DEPOSIT

Classification

Minor occurrence

Commodities

Silica, kaolin, lignite, fireclay

Location

NTS 42J/7NE

Habel Township

Exposures have been observed along shores of the Missinaibi River and the Little and Big Soweska Rivers.

Latitude	Longitude
50°24'20"	82°33'05"

Remarks

Lignite is found as thin beds associated with unconsolidated quartz sands and kaolin clays of Cretaceous age. Thickness of the silica sand - kaolin material, which contains three more or less uniformly continuous fireclay bands, is indicated by drilling to be in excess of 168 feet. Tests have indicated the presence of glass sand and filler-grade kaolin clay.

References

Vos (1975, p.52-55)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Soweska, Township Habel, District Cochrane.

Map Reference

ODM Map P.396 (Bennett et al. 1967)

KAOLIN

NORTHERN ONTARIO CHINA CLAY COMPANY DEPOSIT

Classification

Major occurrence

Commodities

Silica, kaolin, lignite, fireclay

Location

NTS 42J/1NE

Listed under CLAY

SMOKY FALLS REFRACTORY COMPANY DEPOSIT

Classification

Past producer

Commodities

Silica, kaolin, lignite, fireclay

Location

NTS 42J/1NE

Listed under CLAY

ALGOCEN NO. 1 AND NO. 2 (COAL CREEK) DEPOSITS

Classification

Major occurrences

Commodities

Silica, kaolin, lignite, fireclay

Location

NTS 42J/2NW

Listed under CLAY

SOWESKA DEPOSIT

Classification

Minor occurrence

Commodities

Silica, kaolin, lignite, fireclay

Location

NTS 42J/7NE

Listed under CLAY

LIGNITE

NORTHERN ONTARIO CHINA COMPANY DEPOSIT

Classification

Major occurrence

Commodities

Silica, kaolin, lignite, fireclay

Location

NTS 42J/1NE

Listed under CLAY

SMOKY FALLS REFRACTORY COMPANY DEPOSIT

Classification

Past producer

Commodities

Silica, kaolin, lignite, fireclay

Location

NTS 42J/1NE

Listed under CLAY

ALGOCEN NO. 1 AND NO. 2 (COAL CREEK) DEPOSITS

Classification

Major occurrences

Commodities

Silica, kaolin, lignite, fireclay

Location

NTS 42J/2NW

Listed under CLAY

SOWESKA DEPOSIT

Classification

Minor occurrence

Commodities

Silica, kaolin, lignite, fireclay

Location

NTS 42J/7NE

Listed under CLAY

MAGNETITE

MARTISON COMPLEX

Classification

Major occurrence

Commodities

Niobium, phosphate, titaniferous magnetite, apatite, rare earths

Location

NTS 42J/06SW

Listed under APATITE

NIOBIUM

MARTISON COMPLEX

Classification

Major occurrence

Commodities

Niobium, phosphate, titaniferous magnetite, apatite, rare earths

Location

NTS 42J/06SW

Listed under APATITE

PHOSPHATE

MARTISON COMPLEX

Classification

Major occurrence

Commodities

Niobium, phosphate, titaniferous magnetite, apatite, rare earths

Location

NTS 42J/06SW

Listed under APATITE

SILICA

NORTHERN ONTARIO CHINA CLAY COMPANY DEPOSIT

Classification

Major occurrence

Commodities

Silica, kaolin, lignite, fireclay

Location

NTS 42J/1NE

Listed under CLAY

SMOKY FALLS REFRACTORY COMPANY DEPOSIT

Classification

Past producer

Commodities

Silica, kaolin, lignite, fireclay

Location

NTS 42J/1NE

Listed under CLAY

ALGOCEN NO. 1 AND NO. 2 (COAL CREEK) DEPOSITS

Classification

Major occurrences

Commodities

Silica, kaolin, lignite, fireclay

Location

NTS 42J/2NW

Listed under CLAY

SOWESKA DEPOSIT

Classification

Minor occurrence

Commodities

Silica, kaolin, lignite, fireclay

Location

NTS 42J/7NE

Listed under CLAY

NTS 42L NAKINA SHEET

ASBESTOS

TORONTO LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 42L/5SW

Approximately 8 miles north of Auden.

Latitude	Longitude
50°20'25"	87°52'00"

Remarks

Mineralization is associated with serpentinite which forms a part of the Toronto Lake Complex. The bedrock in the area is of Early Precambrian age.

References

Pye (1968, p.12-17, 40-41)

Map Reference

ODM Map 2310 (MNR 1974)

BERYL

ALDOR DEPOSIT

Classification

Minor occurrence

Commodities

Beryl, gold, stone

Location

NTS 42L/10NW

About 35 miles north of Nakina.

Latitude	Longitude
50°41'55"	86°49'20"

Remarks

The rocks are of Precambrian age and belong essentially to the Marshall Lake "Series". Narrow pegmatitic dikes believed to contain large beryl crystals intrude granite in the central part of the claim. The granite is massive and medium grained.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Thunder Bay

Aldor Exploration and Development Company Ltd. File.

Map Reference

ODM Map P.274 (Pye et al. 1965)

SAGA LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Beryl

Location

NTS 42L/10NW

About 35 miles north of Nakina.

Latitude	Longitude
50°41'35"	86°50'50"

Remarks

Mineralization occurs in muscovite dikes. The beryl crystals are up to an inch in width and are associated with hornblende and perthite.

References

Kindle (1932, p.81-82)

Map Reference

ODM Map 2102 (Pye et al. 1966)

COBALT

HEADWAY RED LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, cobalt, pyrrhotite, chalcopyrite

Location

NTS 42L/4SE

Approximately 25 miles northeast of Beardmore.

Latitude	Longitude
50°00'55"	87°39'50"

Remarks

Diamond drill holes indicated cobalt, massive pyrrhotite and pyrite. Geophysical work indicated this body to be approximately 1,600 feet long.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Thunder Bay

Headway Coulee File, Lynx-Canada Explorations Ltd. - Dejour Mines Limited - Canadian Reynolds Metal Co. Ltd. Joint Venture File.

Map Reference

ODM Map P.846 (Thurston et al. 1973)

ODM Map 2102 (Pye et al. 1966)

GRAPHITE

HENRICKSON-OBOSHKEGAN LAKES DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite, graphite

Location

NTS 42L/3NW

Approximately 35 miles north of Jellicoe and about 40 miles northwest of Geraldton.

Latitude	Longitude
50°08'55"	87°28'30"
50°11'50"	87°27'20"
50°11'40"	87°26'50"
50°11'55"	87°26'50"
50°11'47"	87°26'45"
50°10'45"	87°16'00"
50°12'55"	87°15'50"
50°14'35"	87°15'40"
50°13'10"	87°15'35"

Remarks

The bedrock is Early Precambrian metavolcanic-metasedimentary and metamorphosed gabbroic assemblages bordered and intruded by granitic bodies.

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

Files Henrickson Lake and Oboshkegan Lake, Township Oboshkegan, District Thunder Bay.

Map Reference

OGS Map 2412 (Amukun 1978)

PHELPS DODGE DEPOSIT

Classification

Major occurrences

Commodities

Pyrite, pyrrhotite, graphite, chalcopyrite

Location

NTS 42L/4NE

About 12 miles due north of Onaman Lake.

Latitude	Longitude
50°08'20"	87°39'58"
50°08'25"	87°39'55"

Remarks

Mineralization is associated with auriferous quartz veins. Two diamond drill holes totalling 186 feet were drilled in 1970, however no favourable results were recorded.

References

Amukun (1977, p.79)

Map Reference

ODM Map P.931 (Amukun 1974)

OBOSHKEGAN TOWNSHIP DEPOSIT 1

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, magnetite, graphite, chalcopyrite

Location

NTS 42L/4NE

Oboshkegan Township

Latitude	Longitude
50°10'15"	87°39'20"
50°14'25"	87°34'10"
50°11'05"	87°32'25"
50°08'10"	87°31'45"
50°12'10"	87°31'30"
50°13'50"	87°30'50"
50°14'20"	87°30'15"

Remarks

Mineralization occurs in a complex, greatly altered Early Precambrian "greenstone" belt. Exploration activity has been centred mainly around the auriferous quartz veins.

References

Amukun (1977, p.75-76)

Map Reference

ODM Map P.931 (Amukun 1974)

LITHIUM

O'SULLIVAN LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Lithium

Location

NTS 42L/6NE

O'Sullivan Lake area, about 25 miles northwest of Nakina.

Southwest of:

Latitude	Longitude
50°30'	87°00'

Remarks

The area is underlain by gneissic granite and younger granite cutting metasediments of the Marshall Lake "Series". Lithium-bearing dikes were reported in the area of O'Sullivan and Superb Lakes.

References

Mulligan (1965, p.63)

MARL

BLUE LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Marl

Location

NTS 42L/3NW

Suni Township

8 miles southeast of Kowkash, northeast of Onaman Lake

Latitude	Longitude
50°10'45"	87°20'50"

Remarks

Mineralization occurs in a band of mafic to intermediate metavolcanics, which strikes east-northeast

References

Guillet (1969, p.112)

RED PAINT LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Marl

Location

NTS 42L/3NW

Kowkash Township

Latitude	Longitude
50°13'40"	87°20'55"

Remarks

The deposit is at least 20 feet deep at the southeastern end of the lake and varies greatly in thickness around other parts of the lake.

References

Guillet (1969, p.110-111)

Map Reference

ODM Map P.999 (Amukun and Gibson 1975)

TASHOTA DEPOSIT

Classification

Minor occurrence

Commodities

Marl

Location

NTS 42L/4NE

1/2 mile southeast of the Tashota gravel pit at Tashota Station on CNR line.

Latitude	Longitude
50°13'30"	87°40'10"

Remarks

White marl, with a few scattered white shells, occurs in a small pond. The country rock is highly altered Early Precambrian metavolcanics.

References

Guillet (1969, p.112)

Map Reference

ODM Map 2102 (Pye et al. 1966)

CHARA LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Marl

Location

NTS 42L/6SE

Kowkash Township

Latitude	Longitude
50°18'10"	87°12'00"

Remarks

White marl associated with an algae reef is found in the west half of Chara Lake.

References

Guillet (1969, p.111)

WAWONG LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Marl

Location

NTS 42L/7SW

Rupert Township

Latitude	Longitude
50°15'00"	86°59'00"

Remarks

Rocks in the area are of Early Precambrian age. Marl occurs in the lake which is characterized by a clear blue-green colour.

References

Guillet (1969, p.111)

PYRITE

LOUIS LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite

Location

NTS 42L/3NW

Oboshkegan Township

Latitude	Longitude
50°12'40"	87°23'15"
50°13'00"	87°23'00"

Map Reference

OGS Map 2412 (Amukun 1978)

ODM Map P.999 (Amukun and Gibson 1975)

HENRICKSON-OBOSHKEGAN LAKES DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite, graphite

Location

NTS 42L/3NW

Listed under GRAPHITE

LAKE STE. MARIE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 42L/4NE

Oboshkegan Township

About 9 miles north of Onaman Lake.

Latitude	Longitude
50°13'25"	87°30'30"

Map Reference

ODM Map P.931 (Amukun 1974)

PHELPS DODGE DEPOSIT

Classification

Major occurrences

Commodities

Pyrite, pyrrhotite, graphite, chalcopyrite

Location

NTS 42L/4NE

Listed under GRAPHITE

OBOSHKEGAN TOWNSHIP DEPOSIT 1

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, magnetite, graphite, chalcopyrite

Location

NTS 42L/4NE

Listed under GRAPHITE

OBOSHKEGAN TOWNSHIP DEPOSIT 2

Classification

Minor occurrence

Commodities

Pyrite, chalcopyrite, pyrrhotite, gold

Location

NTS 42L/4NE

Oboshkegan Township

Latitude	Longitude
50°09'50"	87°36'00"

Map Reference

ODM Map 2354 (Amukun 1976)

HEADWAY-COULEE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, chalcopyrite, gold, silver, lead

Location

NTS 42L/4SE

South central portion of the Coughlan Lake area about 25 miles northeast of Beardmore.

Latitude	Longitude
50°01'40"	87°38'55"
50°02'00"	87°38'25"
50°02'20"	87°37'45"
50°02'38"	87°37'20"

Map Reference

ODM Map P.846 (Thurston et al. 1973)

ODM Map 2102 (Pye et al. 1966)

HEADWAY RED LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, cobalt, pyrrhotite, chalcopyrite

Location

NTS 42L/4SE

Listed under COBALT

PYRITE

HEBNER LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, chalcopyrite, pyrrhotite

Location

NTS 42M/3NW

Approximately 2 miles northeast of Hebner Lake.

Latitude	Longitude
51°13'40"	87°21'05"

Map Reference

ODM Map P.565 (Thurston and Carter 1969)

RESERVE LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, chalcopyrite, tungsten

Location

NTS 42M/12SE

Approximately 2 miles northeast of Reserve Lake.

Latitude	Longitude
51°35'15"	87°41'55"

Map Reference

ODM Map P.565 (Thurston and Carter 1969)

GYPSUM

CHEEPASH RIVER DEPOSIT

Classification

Minor occurrences

Commodities

Gypsum

Location

NTS 42P/3SW

Roebuck and Maher Townships

Along the Cheepash River.

Latitude	Longitude
51°04'24"	81°22'04"
51°05'08"	81°19'50"
51°05'12"	81°16'31"

Remarks

There are smooth, rounded or undercut, waterworn outcrops of gypsum up to 25 feet above the river level. The gypsum is mainly massive, medium-grained and white, and in many places is of high purity. Brown or amber-coloured selenitic gypsum is interspersed throughout. Typical colloform structures of the massive gypsum, 2 to 4 inches in diameter, are present and are delineated by thin brown limestone laminae. Drilling proved continuation of gypsum to a depth of 125 feet, with coarse selenitic gypsum and amber colouration increasing with depth.

References

Guillet (1964b, p.47-51)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Roebuck Gypsum, Township Roebuck, District Cochrane.

Map Reference

ODM Map 2171 (Bennett, Brown, George, and Guillet 1969)

PYRITE

FISHBASKET LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, chalcopyrite

Location

NTS 43D/12NW

North shore of the central part of Fishbasket Lake.

Latitude	Longitude
52°39'05"	87°54'50"

Map Reference

ODMNA Map P.715 (Thurston et al. 1971)

NTS 43K SUTTON LAKE SHEET

PYRITE

SUTTON NARROWS DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite

Location

NTS 43K/7NE

Sutton Narrows

Between Sutton Lake and Hawley Lake.

Latitude	Longitude
54°24'01"	84°40'28"

Map Reference

ODM Map P.951 (Riley 1974)

NTS 43L CLENDENNING RIVER SHEET

PYRITE

WINISK RIVER DEPOSIT 1

Classification

Minor occurrences

Commodities

Pyrite

Location

NTS 43L/4NW

Winisk River area

Latitude	Longitude
54°12′50″	87°59′45″
54°10′24″	87°46′55″

Map Reference

ODM Map P.951 (Riley 1974)

WINISK RIVER DEPOSIT 2

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 43L/7SW

Winisk River area

Latitude	Longitude
54°17′25″	86°59′56″

Map Reference

ODM Map P.951 (Riley 1974)

NTS 52A THUNDER BAY SHEET

AGATE

BLACK BAY PENINSULA DEPOSIT

Classification

Minor occurrences

Commodities

Agate

Location

NTS 52A/8NW

Showings occur on the southeastern shore of Black Bay Peninsula on islands in Lake Superior.

Latitude	Longitude
48°26'05"	88°28'25"
48°25'15"	88°28'00"

Remarks

Agate occurs within mafic volcanic rocks and is of good quality for lapidary work. It is found as pebbles of amygdaloidal filling on the beaches in the area.

References

Giguere (1975, p.15-16,24)

Map Reference

ODM Map 2304 (McIlwaine and Wallace 1975)

FLUOR ISLAND DEPOSIT 1

Classification

Minor occurrences

Commodities

Agate

Location

NTS 52A/9NE

Fluor Island, east of Black Bay Peninsula, Lake Superior.

Latitude	Longitude
48°41'10"	88°05'40"
48°41'45"	88°04'40"

Remarks

Agate occurs within mafic volcanic rocks and is often of good quality for lapidary work. Showings are present throughout the Black Bay Peninsula as pebbles of amygdaloidal filling on beaches.

References

Giguere (1975, p.15,18,24)

Map Reference

ODM Map 2304 (McIlwaine and Wallace 1975)

HERRON POINT DEPOSIT

Classification

Minor occurrence

Commodities

Agate

Location

NTS 52A/9SW

Herron Point

Latitude	Longitude
48°34'45"	88°15'20"

Remarks

Agate is found together with quartz as amygdules in volcanic rocks (basalt). The fine-grained and massive basalt is found on either side of a major fault.

References

Giguere (1975, p.15,16,24)

Map Reference

ODM Map 2304 (McIlwaine and Wallace 1975)

AMETHYST

PRINCE LOCATION DEPOSIT 1

Classification

Minor occurrence

Commodities

Amethyst

Location

NTS 52A/3NW

Prince Location

Less than 1 mile west of Mink Bay, Lake Superior.

Latitude	Longitude
48°08'45"	89°20'50"

Remarks

A breccia zone strikes northwest cutting a diabase sill in contact with and overlying Rove sedimentary rocks. This band is 12 to 18 inches wide and extends several hundred feet in length. It is filled with quartz and amethyst.

References

Geul (1973b, p.19,37)

Map Reference

ODM Map 2065 (Pye and Fenwick 1965)

CLOUD RIVER DEPOSIT

Classification

Minor occurrence

Commodities

Amethyst

Location

NTS 52A/4SE

Crooks Township

Less than 1 mile southeast of Cloud Lake.

Latitude	Longitude
48°06'40"	89°31'20"

Remarks

Amethyst is associated with the breccia zone that strikes northwest in this area.

References

Vos (1976, p.30-40)

Map Reference

ODM Map 2250 (Geul 1973a)

JOHNSON MINE

Classification

Producer

Commodities

Amethyst

Location

NTS 52A/10NW

McTavish Township

Along Anderson Creek about 1 mile north of Loon Lake.

Latitude	Longitude
48°39'40"	88°45'55"

Remarks

Amethyst occurs in quartz veins that are 2 to 3 inches wide. These veins are vertical and open into vugs approximately 1 foot wide.

References

Vos (1976, p.54-57)

Map Reference

ODMNA Map P.720 (McIlwaine 1971a)

BOWKER DEPOSIT

Classification

Minor occurrence

Commodities

Amethyst, pyrite

Location

NTS 52A/10NE

McTavish Township

1/2 mile west of Bowker Station on the CPR line.

Latitude	Longitude
48°42'55"	88°37'45"

Remarks

Veins in or near granitic rocks contain amethyst, pyrite and galena. Some deposits are associated with the base of the Sibley strata.

References

McIlwaine (1971a)

Vos (1976, p.30-40)

DZUBA MINE

Classification

Producer

Commodities

Amethyst

Location

NTS 52A/10NE

McTavish Township, SE1/4 section 4, concession VI.

Latitude	Longitude
48°40'30"	88°43'15"

Remarks

Amethyst lines the vugs in quartz veins. These veins occur in a 30-foot wide breccia zone in quartz monzonite.

References

Vos (1976, p.51)

Map Reference

ODMNA Map P.720 (McIlwaine 1971a)

N. DZUBA MINE

Classification

Producer

Commodities

Amethyst

Location

NTS 52A/10NE

McTavish Township

Latitude	Longitude
48°42'35"	88°33'50"

Remarks

Mineralization occurs in granite; it is about 25 feet wide and includes fragments of Sibley sedimentary rocks. Amethyst occurs in vugs and in calcite carrying veins.

References

Vos (1976, p.48-51)

Map Reference

ODMNA Map P.720 (McIlwaine 1971a)

P. DZUBA MINE

Classification

Producer

Commodities

Amethyst

Location

NTS 52A/10NE

McTavish Township

Claim TB404862, Mineral Lot 13.

Latitude	Longitude
48°42'05"	88°35'55"

Remarks

There are amethyst vugs in quartz veins which are 1 to 2 feet wide enclosed in granite. The crystals are 1.5 to 2 inches in diameter. The veins are about 270 feet long with varying strike of N65-80E.

References

Vos (1976, p.43-52)

Map Reference

ODMNA Map P.721 (McIlwaine 1971b)

ENTERPRISE MINE

Classification

Producer

Commodities

Amethyst

Location

NTS 52A/10NE

McTavish Township

2-1/2 miles southwest of Ancliff Station.

Latitude	Longitude
48°40'35"	88°37'35"

Remarks

Secondary mineralization of amethyst and barite occurs in veins of calcite and quartz that fill cavities and fissures formed during faulting in the area. The veins are approximately 7 feet wide and 150 feet long. They strike N65-70E and dip 75°S. Lead, gold and silver are associated with the veins and two shafts have been sunk on the property to mine these minerals.

References

Tanton (1931a, p.168-169)

Map Reference

ODM Map 2232 (Carter et al. 1973)

KARIES DEPOSIT

Classification

Minor occurrence

Commodities

Amethyst, barite

Location

NTS 52A/10NE

McTavish Township

Southwest of Granite Point on Black Bay, Lake Superior.

Latitude	Longitude
48°41'05"	88°33'40"

Remarks

Mineralized veins of amethyst and barite occur in Early Precambrian felsic rocks in this vicinity.

References

Vos (1976, p.35-40))

Map Reference

ODMNA Map P.721 (McIlwaine 1971b)

NOYES MINE

Classification

Producer

Commodities

Amethyst

Location

NTS 52A/10NE

McTavish Township

Latitude	Longitude
48°41'30"	88°41'15"

Remarks

Amethyst in quartz veins occurs over a length of about 1/2 mile. The veins are of varying strikes and the zone of mineralization varies from 50 to 67 feet in width.

References

Vos (1976, p.54-57)

Map Reference

ODM Map 2232 (Carter et al. 1973)

ONTARIO GEM COMPANY MINE

Classification

Producer

Commodities

Amethyst, barite

Location

NTS 52A/10NE

McTavish Township

Lot 11 covered by leased claim TB403879.

Latitude	Longitude
48°42'00"	88°35'00"

Remarks

In a fault zone at the contact between Sibley Group rocks and the Early Precambrian basement, an amethyst-bearing vein that strikes N35E and dips 85°W is exposed. The vein is 6 to 8 feet wide and has an exposed strike length of about 150 feet. Barite and galena are also present in the vein.

References

Fenwick and Scott (1977, p.38-56)

Map Reference

ODMNA Map P.721 (McIlwaine 1971b)

THUNDER BAY AMETHYST MINE

Classification

Producer

Commodities

Amethyst

Location

NTS 52A/10NE

McTavish Township

East shore of Elbow Lake.

Latitude	Longitude
48°41'25"	88°43'35"

Remarks

A northeast-striking quartz vein with amethyst occurs in the outcrop. The amethyst occurs as veins or in vugs 1/4 inch to 4 feet in length. In the mine area the width of mineralized rock is well over 80 feet.

References

Vos (1976, p.58-63)

Map Reference

ODM Map 2310 (MNR 1974)

WILLIAMSON DEPOSIT

Classification

Minor occurrence

Commodities

Amethyst

Location

NTS 52A/10NE

McTavish Township

Mineral Lot A on Claim TB129263.

Latitude	Longitude
48°41'30"	88°37'10"

Remarks

Amethyst crystals about 3 inches in diameter occur as dense clusters, in a 15-foot wide calcite vein. The nearly vertical vein strikes N76E, is exposed over 75 feet and is surrounded by Sibley Group sedimentary rocks.

References

Vos (1976, p.62)

Map Reference

ODM Map 2232 (Carter et al. 1973)

MCTAVISH TOWNSHIP DEPOSIT

Classification

Minor occurrences

Commodities

Amethyst

Location

NTS 52A/10NE

McTavish Township

Latitude	Longitude
48°42'40"	88°32'00"
48°42'50"	88°32'20"
48°43'00"	88°33'20"
48°42'20"	88°35'55"
48°41'05"	88°37'10"
48°40'45"	88°36'50"
48°40'40"	88°37'50"
48°39'50"	88°39'10"
48°41'10"	88°44'05"

Remarks

The occurrences are in Early Precambrian felsic igneous and metamorphic rocks, in veins or vugs near granitic rocks. Some of these are in contact with Sibley Group sedimentary rocks where sulphide mineralization is common, including galena, sphalerite, pyrite and chalcopyrite.

References

Vos (1976, p.30-40)

Map Reference

ODMNA Maps P.720, P.721 (McIlwaine 1971a,b)

ARSENIC

EDWARD ISLAND PROSPECT

Classification

Major occurrence

Commodities

Arsenic, silver

Location

NTS 52A/7SE

Edward Island at south end of Black Bay Peninsula, Lake Superior.

Latitude	Longitude
48°21'05"	88°38'30"

Remarks

Minerals occur in veins that are part of a northeast fault zone. Mafic lavas have been faulted and intruded by Keweenawan diabase dikes. Two shafts have been placed on veins which assayed 80 ounces silver per ton and have an estimated high content of arsenic.

References

Sergiades (1968, p.73)

Map Reference

ODM Map 2310 (MNR 1974)

ASBESTOS

CONMEE TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 52A/5NW

Conmee Township

Approximately 6 miles northwest of Mokomon.

Latitude	Longitude
48°29'35"	89°45'50"

Remarks

The asbestos occurs within basic to ultrabasic igneous rocks, primarily peridotite, dunite and serpentinite.

References

Hewitt and Satterly (1953, p.3)

Map Reference

ODM Map 2065 (Pye and Fenwick 1965)

BARITE

SOUTH MCKELLAR ISLAND DEPOSIT

Classification

Major occurrence

Commodities

Calcite, barite

Location

NTS 52A/3NE

South McKellar Island, South of Pie Island, Lake Superior

South of Pie Island and 18 miles by air due south of Thunder Bay.

Latitude	Longitude
48°11'10"	89°07'45"

Remarks

A barite-calcite vein strikes N45W and dips vertically. It is 450 feet long and 40 feet wide on the north side of the island and 30 feet wide on the south side. The maximum width of the vein is 60 feet, and it occurs in a Keweenawan diabase dike.

References

Guillet (1963, p.7-11)

Map Reference

ODM Map 2065 (Pye and Fenwick 1965)

THOMPSON ISLAND DEPOSIT

Classification

Minor occurrence

Commodities

Barite, calcite

Location

NTS 52A/3NE

Thompson Island, south of Pie Island, Lake Superior

19 miles south of Thunder Bay, south of Pie Island and southwest of McKellar Island.

Latitude	Longitude
48°10'25"	89°09'20"

Remarks

Coarse dark green trap-like dikes run lengthwise through the island, with calcite and barite veins occurring in separate ribs. The minerals are mixed in parts of the vein.

References

Tanton (1931a, p.189)

Map Reference

ODM Map 2065 (Pye and Fenwick 1965)

McKELLAR POINT DEPOSIT

Classification

Minor occurrence

Commodities

Barite

Location

NTS 52A/3SW

McKellar Point, Crooks Township

Latitude	Longitude
48°04'15"	89°24'40"
48°03'55"	89°24'40"

Remarks

Red syenitic rock surrounds the trap dikes in the area. Veins cross in a northwesterly direction carrying a gangue of barite and calcite.

References

Tanton (1931a, p.191)

Map Reference

ODM Map P.529 (Geul 1969a)

SPAR ISLAND DEPOSIT 1

Classification

Minor occurrences

Commodities

Barite, calcite

Location

NTS 52A/3SW

Spar Island, southwest of Pie Island, Lake Superior

Latitude	Longitude
48°06'20"	89°17'00"
48°06'00"	89°17'00"

Remarks

The vein is banded barite and calcite with some quartz, copper and silver mineralization. It is approximately 260 feet long and trends N25W. During 1846-1847 several hundred pounds of ore running 3 percent silver were extracted.

References

Guillet (1963, p.11-12)

Map Reference

ODM Map 2250 (Geul 1973a)

VICTORIA ISLAND DEPOSIT 1

Classification

Minor occurrences

Commodities

Barite, calcite

Location

NTS 52A/3SW

Victoria Island, southwest of Pie Island, Lake Superior

Directly southwest of Jarvis and Spar Islands on Lake Superior, offshore of the northeastern boundary of Crooks Township.

Latitude	Longitude
48°05'00"	89°21'45"
48°04'25"	89°21'40"

Remarks

Barite and calcite occur in veins which locally run parallel and crosscut the strike of the mafic intrusions and Rove sedimentary rocks.

References

Geul (1973b, p.38)

Map Reference

ODM Map P.530 (Geul 1969b)

WESTFIELD DEPOSIT

Classification

Major occurrences

Commodities

Barite, calcite

Location

NTS 52A/3SW

Jarvis Island, southwest of Pie Island, Lake Superior

Latitude	Longitude
48°05'40"	89°18'30"
48°05'55"	89°18'30"

Remarks

A banded calcite-barite vein which strikes N45W and dips 40-60°NE extends about 800 feet across the island and varies from 10 to 15 feet in thickness. It cuts diabase dikes and is about 50 percent barite. Between 1868 and 1911, 36,000 ounces of silver valued at $40,000 was produced.

References

Sergiades (1968, p.61)

Map Reference

ODM Map 2250 (Geul 1973a)

SPAR ISLAND DEPOSIT 2

Classification

Minor occurrences

Commodities

Barite, calcite

Location

NTS 52A/3SW

Spar Island, southwest of Pie Island, Lake Superior

Latitude	Longitude
48°06'25"	89°16'15"
48°07'20"	89°15'45"
48°06'57"	89°15'00"

Remarks

Barite and calcite occur in banded veins which are mainly coarse white calcite, with about 25 percent barite and 10 percent quartz.

References

Guillet (1963, p.11-12)

Map Reference

ODM Map 2250 (Geul 1973a)

CROOKS TOWNSHIP DEPOSIT 1

Classification

Minor occurrences

Commodities

Barite, calcite

Location

NTS 52A/3SW

Crooks Township

Latitude	Longitude
48°02'10"	89°29'15"
48°04'15"	89°27'25"
48°03'50"	89°27'20"
48°03'30"	89°27'20"
48°02'25"	89°27'15"
48°02'30"	89°27'00"
48°03'50"	89°26'50"
48°03'45"	89°26'25"
48°03'47"	89°26'10"
48°05'10"	89°23'40"
48°05'25"	89°23'00"

Remarks

In this vicinity, the calcite-barite veins are found in breccia zones which trend north-northwest and cut diabasic intrusions. Trace amounts of silver are associated with some of these veins.

References

Guillet (1963, p.5)

Map Reference

ODM Map 2250 (Geul 1973a)

SCRIPTURES VEIN

Classification

Minor occurrence

Commodities

Barite

Location

NTS 52A/4NW

Lismore Township

1-1/2 miles southwest of Silver Mountain.

Latitude	Longitude
48°14'30"	89°55'00"

Remarks

The vein is 4 feet wide, trends N75W and dips 85°N. The lower part is in grey taconite and the exposed upper 25 feet is in diabase. The vein consists mainly of barite with some calcite, amethyst and discontinuous green bands of fluorite.

References

Tanton (1931a, p.110,114)

Map Reference

GSC Map 276a (Tanton 1931b)

HYMERS DEPOSIT

Classification

Minor occurrence

Commodities

Barite

Location

NTS 52A/5SE

O'Connor Township, S1/2 lot 9, concession I.

Latitude	Longitude
48°18'40"	89°43'57"

Remarks

The vein occupies a fault in flat-lying Animikie taconite, strikes N80E with the northern wall dipping 75°S. It is 2-1/2 to 6 feet wide and consists mainly of barite, some calcite, fluorite and quartz.

References

Guillet (1963, p.6)

Tanton (1931a, p.123)

Map Reference

ODM Map 2065 (Pye and Fenwick 1965)

MINING LOCATION T142 DEPOSIT

Classification

Minor occurrence

Commodities

Barite

Location

NTS 52A/5SE

O'Connor Township

Immediately north of Beaver Mine in the southeast part of O'Connor Township.

Latitude	Longitude
48°19'25"	89°38'05"

Remarks

Barite occurs in veins 1 to 15 feet wide, often branched to form parallel veins that strike N80E and dip 70°N. It cuts taconite of the Gunflint Formation. Quartz, calcite and minor amounts of fluorite are present with barite averaging 10 percent of the vein.

References

Guillet (1963, p.6,11)

Tanton (1931a, p.131-132)

Map Reference

ODM Map 2310 (MNR 1974)

MINING LOCATIONS T143 AND T144 DEPOSIT

Classification

Minor occurrence

Commodities

Barite

Location

NTS 52A/5SE

O'Connor Township

North bank of Pitch Creek.

Latitude	Longitude
48°19'55"	89°44'25"

Remarks

Ribs of barite up to 2 feet thick are present in an exposed quartz-calcite vein 150 feet long by 5 feet wide. The vein strikes N55E, dips 50-75°SE and cuts Animikie iron formation.

References

Guillet (1963, p.6,11)

Tanton (1931a, p.123)

Map Reference

ODM Map 2065 (Pye and Fenwick 1965)

COOPER DEPOSIT

Classification

Minor occurrence

Commodities

Barite

Location

NTS 52A/6NW

Neebing Township, lot 17, concession V, about 660 feet south of northeastern corner.

Latitude	Longitude
48°23'20"	89°21'00"

Remarks

A coarse, platy barite vein, 2 feet thick, strikes N80E and dips 60°N in the Animikie iron formation. It can be traced for 30 feet.

References

Tanton (1931, p.147-148)

Map Reference

GSC Map 276A (Tanton 1931b)

KARIES DEPOSIT

Classification

Minor occurrence

Commodities

Amethyst, barite

Location

NTS 52A/10NE

Listed under AMETHYST

ONTARIO GEM COMPANY MINE

Classification

Producer

Commodities

Amethyst, barite

Location

NTS 52A/10NE

Listed under AMETHYST

LOFQUIST-MAATA DEPOSIT

Classification

Minor occurrence

Commodities

Barite

Location

NTS 52A/16NW

Nipigon Township, lot 9, concession III.

Latitude	Longitude
48°59'55"	88°15'45"

Remarks

Barite is found in veins near the contact of Sibley Group sedimentary rocks and granitic rocks. These veins are 1 to 2 feet wide and have been traced for 150 feet. Barite makes up 90 percent of the veins; galena, chalcopyrite and small amounts of silver are also present.

References

Tanton (1931a, p.181-182)

Map Reference

ODM Map 2310 (MNR 1974)

BERYL

EAYRS LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Beryl

Location

NTS 52A/13NE

Approximately 3/4 mile east-northeast of Eayrs Lake.

Latitude	Longitude
48°59'50"	89°36'35"

Remarks

The beryl occurrence is within Early Precambrian felsic intrusive rocks.

Map Reference

ODM Map 2065 (Pye and Fenwick 1965)

CALCITE

PRINCE LOCATION DEPOSIT 2

Classification

Minor occurrence

Commodities

Calcite

Location

NTS 52A/3NW

Prince Location

Latitude	Longitude
48°07'35"	89°19'00"

Remarks

There is a breccia zone consisting of calcite-quartz veins approximately 8 feet wide with crystalline calcite, barite and some amethyst.

References

Geul (1973b, p.37)

Map Reference

ODM Map 2065 (Pye and Fenwick 1965)

SOUTH MCKELLAR ISLAND DEPOSIT

Classification

Major occurrence

Commodities

Calcite, barite

Location

NTS 52A/3NE

Listed under BARITE

THOMPSON ISLAND DEPOSIT

Classification

Minor occurrence

Commodities

Barite, calcite

Location

NTS 52A/3NE

Listed under BARITE

SPAR ISLAND DEPOSIT 1

Classification

Minor occurrence

Commodities

Barite, calcite

Location

NTS 52A/3SW

Listed under BARITE

VICTORIA ISLAND DEPOSIT 1

Classification

Minor occurrence

Commodities

Barite, calcite

Location

NTS 52A/3SW

Listed under BARITE

WESTFIELD DEPOSIT

Classification

Major occurrence

Commodities

Barite, calcite

Location

NTS 52A/3SW

Listed under BARITE

SPAR ISLAND DEPOSIT 2

Classification

Minor occurrence

Commodities

Barite, calcite

Location

NTS 52A/3SW

Listed under BARITE

CROOKS TOWNSHIP DEPOSIT 1

Classification

Minor occurrences

Commodities

Barite, calcite

Location

NTS 52A/3SW

Listed under BARITE

CROOKS TOWNSHIP DEPOSIT 2

Classification

Minor occurrence

Commodities

Calcite

Location

NTS 52A/3SW

Crooks Township

Latitude	Longitude
48°06'06"	89°28'12"

Remarks

The calcite in this location is associated with breccia zones.

References

Tanton (1931a, p.90,100)

Map Reference

ODM Map 2250 (Geul 1973a)

NEEPATRYE MINE

Classification

Past producer

Commodities

Calcite

Location

NTS 52A/6NW

Neebing Township, lots 24 and 25, concession V.

Latitude	Longitude
48°23'55"	89°23'00"

Remarks

Seven veins in flat-lying taconite of the Animikie iron formation are on this property. Three open cuts (on the 100-foot wide composite vein) show coarsely crystalline calcite with galena, quartz and chalcopyrite. Barite veins trending S60E are also present.

References

Tanton (1931a, p.144)

Map Reference

ODM Map 2065 (Pye and Fenwick 1965)

GEORGE POINT DEPOSIT

Classification

Minor occurrence

Commodities

Calcite

Location

NTS 52A/7NE

Sibley Township

West of George Point, northeast of Miles Bay.

Latitude	Longitude
48°28'50"	88°35'00"

Remarks

Calcite-barite veins associated with breccia zones are numerous in this area.

References

Guillet (1963, p.5)

Map Reference

ODM Map 2304 (McIlwaine and Wallace 1975)

EDWARD ISLAND DEPOSIT 1

Classification

Minor occurrences

Commodities

Calcite

Location

NTS 52A/7NE

Edward Island, southern end of Black Bay Peninsula, Lake Superior.

Latitude	Longitude
48°23'15"	88°36'10"
48°23'55"	88°34'50"

Remarks

Common gangue minerals in the area are calcite, barite and quartz. They are often associated with silver-bearing veins.

References

Guillet (1963, p.5)

Map Reference

ODM Map 2304 (McIlwaine and Wallace 1975)

EDWARD ISLAND DEPOSIT 2

Classification

Minor occurrence

Commodities

Calcite

Location

NTS 52A/7SE

Edward Island, southern end of Black Bay Peninsula, Lake Superior.

Latitude	Longitude
48°22'20"	88°39'00"

Remarks

Calcite-barite veins often associated with breccia zones and silver-bearing veins are present in this area.

References

Guillet (1963, p.5)

Map Reference

ODM Map 2304 (McIlwaine and Wallace 1975)

FLUOR ISLAND DEPOSIT 2

Classification

Minor occurrence

Commodities

Calcite

Location

NTS 52A/9NE

Fluor Island, east of Black Bay Peninsula, Lake Superior.

Latitude	Longitude
48°38'57"	88°05'45"

Remarks

Calcite veins, often found in association with breccia zones, are common in this area.

References

Geul (1973b, p.19)

Map Reference

ODMNA Map P.624 (McIlwaine et al. 1971)

CHROMITE

GREAT LAKES DEPOSIT

Classification

Major occurrence

Commodities

Chromite, nickel, copper

Location

NTS 52A/4SE

Pardee Township

Latitude	Longitude
48°04'36"	89°34'15"

Remarks

Mineralization occurs in a trough-shaped olivine gabbro intrusion. Chromite bands mark the top and overlap the sulphide mineralization by 50 feet. The mineralized zone averages 90 feet thick along a strike length of 7,000 feet. Drilling outlined about 40 million tons.

References

Geul (1969c, p.52-57)

Map Reference

ODM Map 2310 (MNR 1974)

CLAY

PINE BAY DEPOSIT

Classification

Minor occurrence

Commodities

Clay

Location

NTS 52A/4SE

Crooks Township

20 km northeast of Pigeon River.

Latitude	Longitude
48°03'50"	89°30'55"

Remarks

The clay is exposed for 3 m and consists of red stratified clay overlying unstratified brown clay and olive-grey silt beds. It has good workability and is stoneless.

References

Guillet (1977, p.111)

THUNDERBRICK (SUPERIOR BRICK AND TILE) DEPOSIT

Classification

Producer

Commodities

Clay

Location

NTS 52A/6SW

Paipoonge Township

Rosslyn Village

Latitude	Longitude
48°21'30"	89°27'15"

McCluskeys Corners

Latitude	Longitude
48°18'30"	89°27'05"

Remarks

Pits are located in thick varved clay beds deposited in glacial Lake Algonquin. The clay section is thin. The brick plant uses mainly stratified silt, sand and clay from the flood plain of the Kaministikwia River.

References

Burwasser (1977, p.52)

Map Reference

ODM Map 2310 (MNR 1974)

DOG LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Clay

Location

NTS 52A/12NE

Fowler Township

1.6 km east of Silver Falls Power Plant.

Latitude	Longitude
48°40'40"	89°35'45"

Remarks

Red clay is exposed over an area of 0.4 km. It is overlain and underlain by stratified sand and gravel. An estimated 100 feet of clay is present.

References

Guillet (1977, p.101,111)

FINMARK DEPOSIT

Classification

Minor occurrence

Commodities

Clay

Location

NTS 52A/12SW

Forbes Township

Latitude	Longitude
48°35'20"	89°45'30"

Remarks

Samples of the red clay indicated that it contains occasional limy pebbles or concretions.

References

Guillet (1977, p.101,111)

COBALTITE

SILVER ISLET DEPOSIT

Classification

Past producer

Commodities

Cobaltite, silver, niccolite, sphalerite

Location

NTS 52A/7SW

Sibley Township

Latitude	Longitude
48°19'16"	88°48'48"

Remarks

Silver, cobaltite, argentite and other minerals occur in veins that lie in a brecciated zone caused by a fault which strikes northwest. The fault crosses Keweenawan diabase which intrudes Animikie sedimentary rocks. Between 1869 and 1922 about 2,870,000 ounces of silver worth $3,261,000 were mined.

References

Sergiades (1968, p.73)

Map Reference

ODM Map 2310 (MNR 1974)

FELDSPAR

BUDA DEPOSIT

Classification

Major occurrence

Commodities

Feldspar

Location

NTS 52A/12NW

Goldie Township, lot 6, concession VI.

Latitude	Longitude
48°40'15"	89°49'30"

Remarks

A feldspar dike forms the crest of a north-trending ridge. The exposed strike length of the dike is 220 m, the width is 21 m. Coarsely crystalline feldspar and muscovite specks are present. The deposit is estimated to contain 220,000 tons.

References

Hewitt (1967a, p.22)

Map Reference

ODM Map 2310 (MNR 1974)

HEMATITE

SANDERSON DEPOSIT

Classification

Minor occurrence

Commodities

Hematite

Location

NTS 52A/10NE

McTavish Township

Latitude	Longitude
48°41'25"	88°37'35"

Remarks

Hematite permeates red fragmental rock of the Sibley Group located in a shatter zone that strikes N65E and dips vertically. Red hematite in porous, massive and botryoidal form occurs along the walls of quartz veinlets. The zone is about 4 feet wide. Trenching exposed veinlets to a depth of 3 feet.

References

Tanton (1931, p.170)

Map Reference

ODMNA Map P.721 (McIlwaine 1971b)

MAGNETITE

VICTORIA ISLAND DEPOSIT 2

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 52A/3SW

Victoria Island, Lake Superior, opposite Crooks Township.

Latitude	Longitude
48°04'51"	89°20'53"

References

Geul (1973b, p.36)

Map Reference

ODM Map P.530 (Geul 1969b)

MARL

INTOLA DEPOSIT

Classification

Minor occurrence

Commodities

Marl

Location

NTS 52A/6NW

McIntyre Township

1-1/3 miles southeast of Intola Post Office.

Latitude	Longitude
48°28'45"	89°23'50"

Remarks

A marl deposit 2 feet thick is exposed along the western part of the lake. It consists mainly of calcareous shells of small organisms.

References

Tanton (1931a, p.201)

Map Reference

ODM Map 2065 (Pye and Fenwick 1965)

PEAT

ARTHUR BOG

Classification

Minor occurrence

Commodities

Peat

Location

NTS 52A/6NW

Paipoonge Township

Latitude	Longitude
48°24'55"	89°15'25"

Remarks

The bog is shallow with an average depth of 3 to 7 feet. The peat is fairly well humified and has an estimated volume of 13,146,000 cubic yards.

References

Anrep (1922, p.7)

Map Reference

OGS Map 2372 (Burwasser 1976)

TWIN CITIES BOG

Classification

Minor occurrence

Commodities

Peat

Location

NTS 52A/6NW

Paipoonge Township

Latitude	Longitude
48°22'30"	89°26'40"

Remarks

The bog trends northeast and has a depth of 5 feet. Peat is well humified and thoroughly drained.

References

Anrep (1922, p.9)

Map Reference

OGS Map 2372 (Burwasser 1976)

WILLIAM BOG

Classification

Minor occurrence

Commodities

Peat

Location

NTS 52A/6NW

Neebing and McIntyre Townships

Latitude	Longitude
48°24'10"	89°19'40"
48°24'30"	89°17'50"

Remarks

The total area of the bogs is 1,789 acres with average depths of 3 to 7 feet. The peat is fairly well humified and composed mainly of carex plants.

References

Anrep (1922, p.8)

Map Reference

OGS Map 2372 (Burwasser 1976)

PYRITE

BOWKER DEPOSIT

Classification

Minor occurrence

Commodities

Amethyst, pyrite

Location

NTS 52A/10NE

Listed under AMETHYST

GREENWICH LAKE DEPOSIT

Classification

Major occurrence

Commodities

Uranium, marcasite, pyrite

Location

NTS 52A/15SW

Near Greenwich Lake

Latitude	Longitude
48°47'18"	88°51'22"

Map Reference

ODM Map 2310 (MNR 1974)

SELENIUM

BARNES DEPOSIT

Classification

Major occurrence

Commodities

Molybdenum, selenium

Location

NTS 52A/10NW

6 miles west and 1 mile north of Loon Station on CPR line.

Latitude	Longitude
48°38'40"	88°53'40"

Remarks

Shallowly southwest-dipping quartz veins and pegmatitic dikes cut greywacke and contain molybdenite, chalcopyrite, gold, selenium and pyrrhotite. In 1955, 4,815 feet of diamond drilling was done.

References

Johnston (1968, p.74)

Map Reference

ODM Map 2310 (MNR 1974)

SHALE

MOUNT MCKAY SHALE

Classification

Major occurrence

Commodities

Shale

Location

NTS 52A/6SW

Indian Reserve 52

South side of the City of Thunder Bay.

Latitude	Longitude
48°20'35"	89°17'40"

Remarks

Bedded shales of the Rove Formation contain carbonate concretions. Shales were used to produce dry-pressed brick prior to 1919.

References

Guillet (1977, p.44)

Map Reference

ODM Map P.817 (Burwasser 1973)

RIVERDALE ROAD QUARRY

Classification

Minor occurrence

Commodities

Shale

Location

NTS 52A/6SW

Neebing Township

Approximately 3 miles southwest of Thunder Bay.

Latitude	Longitude
48°19'50"	89°21'20"

Remarks

A medium bedded, blue-black shale of the Rove Formation is exposed in the quarry. A 10-foot section over a length of 300 feet exposed carbonate concretions and well-developed vertical jointing

References

Guillet (1977, p.44)

Map Reference

ODM Map P.817 (Burwasser 1973)

SAWYER BAY SHALE

Classification

Major occurrence

Commodities

Shale

Location

NTS 52A/7SW

Sibley Township

Western shore of Sibley Peninsula at Sawyer Bay.

Latitude	Longitude
48°21'50"	88°53'15"

Remarks

Shale of the Rove Formation was mined at this locality for bricks and structural tiles. It is grey-black, medium bedded with calcium carbonate concretions. Along the shore, shale banks reach 40 feet.

References

Guillet (1977, p.44)

KESHKABUON ISLAND SHALE

Classification

Minor occurrence

Commodities

Shale

Location

NTS 52A/10SW

On Keshkabuon Island, which is about 1 mile offshore from Amethyst Harbour.

Latitude	Longitude
48°31'30"	88°50'45"

Remarks

Animikie shale of the Rove Formation, at this locality, is thin and grey-black. In exposed sections, the talus slopes are free of overburden.

References

Guillet (1977, p.44)

STONE

HEWITSON QUARRY

Classification

Past producer

Commodities

Stone

Location

NTS 52A/6NE

McIntyre Township

Less than a mile east-northeast of the Port Arthur Golf Club.

Latitude	Longitude
48°25'40"	89°14'55"

Remarks

A diabase sill and shale, 10 feet below the sill, have been used for road surface material. The sill is 15 feet thick and is cut by faults and small veins carrying fluorite, calcite, sphalerite and small amounts of silver.

References

Tanton (1931a, p.152)

Map Reference

ODM Map 2310 (MNR 1974)

GEORGE POINT QUARRY

Classification

Minor occurrence

Commodities

Stone

Location

NTS 52A/7NE

Sibley Township

East shore of Black Bay, Lake Superior.

Latitude	Longitude
48°29'40"	88°34'50"

Remarks

Pale grey, impure sandstone was produced from the quarry for building material purposes, however there has been no production at this location for 50 years.

References

Tanton (1931a, p.199)

Map Reference

ODM Map P.358 (Pye 1966a)

ROADSIDE QUARRY

Classification

Producer

Commodities

Stone

Location

NTS 52A/10SE

Pass Lake, Sibley Peninsula

Latitude	Longitude
48°33'50"	88°44'00"

Remarks

Grey-black, medium-bedded Rove Shale is exposed at this location over a length of 90 feet.

References

Guillet (1977, p.43)

NIPIGON RIVER QUARRY

Classification

Minor occurrence

Commodities

Stone

Location

NTS 52A/16NE

Nipigon Township

On the east shore at the mouth of Nipigon River.

Latitude	Longitude
48°58'00"	88°14'20"

Remarks

The limestone is of Sibley age and is thinly laminated with shaley material. The rock has been slightly recrystallized and indurated in a 20-foot zone adjacent to a diabase dike.

References

Tanton (1931a, p.199)

Map Reference

ODM Map 2232 (Carter et al. 1973)

NTS 52B QUETICO SHEET

BAUXITE

STEEP ROCK DEPOSIT

Classification

Major occurrence

Commodities

Iron, pyrite, bauxite, goethite, hematite

Location

NTS 52B/13SE

Freeborn Township

The claim area encompasses the Middle Arm of Steep Rock Lake, which has been drained for iron ore mining.

Latitude	Longitude
48°48′	91°38′ (approx.)

Remarks

A sedimentary-volcanic sequence, the Steeprock Group, lies unconformably on a Granite Complex; it is based by conglomerate and succeeded by dolomite, orezones and ashrock formations. Deposits of goethite-hematite and pyritic iron formations occur within the Steeprock Group.

References

Jolliffe (1966, p.75-98)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Errington, Hogarth, Roberts; Township Freeborn, District Rainy River.

Map Reference

ODMNA Map 2217 (Shklanka 1972)

BERYL

CARRIGNAN DEPOSIT

Classification

Major occurrence

Commodities

Beryl

Location

NTS 52B/5NW

On the eastern island of two small islands in the Maligne River, at the mouth of Poohbah Creek, east of Tanner Lake, Quetico Provincial Park.

Latitude	Longitude
48°23′20″	91°47′30″

Remarks

An outcrop of quartz-albite-microcline-muscovite pegmatite is 150 feet in length and up to 50 feet in width. It intrudes Early Precambrian biotite gneiss. Beryl is associated with the quartz which has an average grade of 1 percent.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Thunder Bay

File P. Carrignan.

Map Reference

ODM Map 2310 (MNR 1974)

CYR DEPOSIT

Classification

Minor occurrence

Commodities

Beryl, garnet, molybdenum

Location

NTS 52B/5NW

On the western island of two small islands in the Maligne River, at the mouth of Poohbah Creek, east of Tanner Lake, Quetico Provincial Park.

Latitude	Longitude
48°23′20″	91°47′45″

Remarks

A small outcrop of quartz-albite-muscovite pegmatite measuring 40 feet in length and up to 20 feet in width intrudes Early Precambrian biotite gneisses.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Thunder Bay

File P. Carrignan.

MALIGNE RIVER DEPOSIT 1

Classification

Minor occurrence

Commodities

Beryl

Location

NTS 52B/5NW

On the Maligne River about 1-1/2 miles northeast of Twin Falls and about 2 miles east of International Lithium deposit, in Quetico Provincial Park.

Latitude	Longitude
48°22′50″	91°54′35″

Remarks

A beryl-bearing pegmatite dike intrudes Early Precambrian metasediments (biotite gneiss).

References

Pye and Fenwick (1965)

TURTLE LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Beryl

Location

NTS 52B/13NW

On a small island near the north shore of Turtle Lake.

Latitude	Longitude
48°56′55″	91°57′50″

Remarks

A beryl-bearing pegmatite dike intrudes Early Precambrian granite.

References

Moore (1940, p.34)

Map Reference

ODM Map 2065 (Pye and Fenwick 1965)

CHROMITE

SHEBANDOWAN MINE

Classification

Producer

Commodities

Pyrite, cobalt, chromite, copper, nickel, platinum, palladium

Location

NTS 52B/9SW

Hagey Township

North of Crayfish Creek Fault on Discovery Point, Southwest Bay of Lower Shebandowan Lake.

No. 1 Shaft

Latitude	Longitude
48°35'45"	90°16'45"

No. 2 Shaft

48°35'35"	90°15'05"

Remarks

The orebody (a sulphide breccia in which lithic fragments are cemented together by sulphides) is located between a zone of mafic metavolcanics to the north, and a zone of peridotite intercalated with mafic metavolcanics to the south. Feldspar porphyry dikes are found in the wall rocks to the north and south of the orebody. The northern metavolcanic zone is in contact with the Shebandowan Lake Stock (quartz diorite) at its northern edge. The orebody is 4,000 feet long and averages 100 feet wide and contains a series of sulphide replacement lenses 800 to 1600 feet in length. Drilling has indicated a 20-year mill supply, suggesting a reserve of 20 million short tons.

References

Hodgkinson (1968, p.25-26)

Morin (1973a, p.21-27)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File INCO Shebandowan, Township Hagey, District Thunder Bay.

COBALT

SHEBANDOWAN MINE

Classification

Producer

Commodities

Pyrite, cobalt, chromite, copper, nickel, platinum, palladium

Location

NTS 52B/9SW

Listed under CHROMITE

CANADIAN ADDICKS DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite chalcopyrite, cobalt

Location

NTS 52B/13NE

Just east of Garnik Point on the north end of Finlayson Lake.

Latitude	Longitude
48°55'40"	91°33'25"

Remarks

There are numerous sulphide replacement zones throughout the area, mostly associated with the Keewatin (Early Precambrian) iron formation. The sulphide deposit is in well-sheared intermediate metavolcanics and is ultimately associated with cherty iron formation.

References

Fenwick (1976a, p.65)

Map Reference

ODM Map 2065 (Pye and Fenwick 1965)

ARCHIBALD-HANNA DEPOSIT

Classification

Minor occurrence

Commodities

Iron, pyrrhotite, pyrite, cobalt

Location

NTS 52B/14SW

McCaul Township

Immediately north of the Atikokan River along the Quetico Fault, 2 miles west of Sapawe Lake.

Latitude	Longitude
48°45'55"	91°25'20"

Remarks

The mineralized zone, containing magnetite, pyrrhotite, pyrite and minor chalcopyrite and cobalt, is a hydrothermal replacement within a gabbro dike along the Quetico Fault. The fault occupies the contact between Early Precambrian metavolcanics to the north and older metasediments to the south. The deposit is part of the Atikokan Range. In spite of a high estimated tonnage, it is not economical due to the narrow widths and extremely lensy nature of the mineralization. Small amounts of copper, nickel and cobalt are also present.

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Archibald-Robert, Township McCaul, District Rainy River.

Map Reference

ODM Map 38e (Hawley 1929)

ODM Map 2065 (Pye and Fenwick 1965)

ATIKOKAN MINE (NORTH RANGE MINING)

Classification

Past producer

Commodities

Iron, copper, cobalt, nickel, pyrite

Location

NTS 52B/14SW

Hutchinson Township

Just north of the Atikokan River, about 1 mile east of Sapawe Lake, and 16 miles east of Atikokan.

Latitude	Longitude
48°47'12"	91°16'32"

Remarks

The deposit is part of the Atikokan Iron Range which extends for some 16 miles to the west. The mineralized zones are hydrothermal replacement bodies within gabbroic dikes along the Quetico Fault. The east-trending fault follows the contact between the Early Precambrian metavolcanics to the north and the older metasediments to the south. It represents a distal facies of the Steep Rock iron deposit. The iron-bearing zone is 3800 feet long and has an average width of 150 feet. Pyrite is found predominantly in the lenticular bodies of magnetite and cobalt appears to be concentrated in the pyrite.

References

Grabowski (1975)

Hawley (1930, p 42-49)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Atikokan Iron Mines, Township Hutchinson, District Rainy River.

Map Reference

ODM Map 2065 (Pye and Fenwick 1965)

BRUCE STAINES (SAPAWE LAKE) PROSPECT

Classification

Major occurrence

Commodities

Magnetite, (iron), cobalt, copper, nickel, pyrite

Location

NTS 52B/14SW

McCaul-Hutchinson Townships

The property is 0.5 miles northwest of Sapawe and 11.5 miles east of Atikokan on the boundary between McCaul and Hutchinson Townships.

Latitude	Longitude
48°46'15"	91°22'05"

Remarks

The mineralized zones are hydrothermal replacement bodies within gabbroic dikes along the Quetico Fault. The east-trending fault follows the contact between the Early Precambrian volcanic rocks to the north and the older sedimentary rocks to the south. Early Precambrian granite and related rocks lie to the north and south of the metavolcanic-metasediment belt, and to the southeast of Sapawe Lake. This deposit is part of the Atikokan Iron Range which extends for some 16 miles to the west. The main zone has been outlined for a length of 2500 feet and a width of approximately 100 feet.

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Hutchinson Township, Technical Survey Files 63.2755 and 63.2843.

FLUORSPAR

LOCH ERNE-ANDOWAN DEPOSIT

Classification

Minor occurrence

Commodities

Fluorspar

Location

NTS 52B/9SW

Near Loch Erne, about 7 miles southeast of Kashabowie station on the CNR.

Latitude	Longitude
48°36'50"	90°20'10"

Remarks

There are breccia zones up to 20 feet wide, the interspaces of which are filled with quartz and, in places, a small proportion of fluorspar. The occurrence is too small to be of economic importance.

References

Wilson (1929, p.32-33)

GARNET

CYR DEPOSIT

Classification

Minor occurrence

Commodities

Beryl, garnet, molybdenum

Location

NTS 52B/5NW

Listed under BERYL

GOETHITE

STEEP ROCK DEPOSIT

Classification

Major occurrence

Commodities

Iron, pyrite, bauxite, goethite, hematite

Location

NTS 52B/13SE

Listed under BAUXITE

GRAPHITE

AVENUE SYNDICATE DEPOSIT

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 52B/9SW

South of Southwest Bay, extending almost to Greenwater Lake at the intersection of Begin, Hagey, Lamport and Haines Townships.

Latitude	Longitude
48°34'50"	90°17'35"

Remarks

The area is underlain by mafic to intermediate metavolcanic flows and pyroclastics with minor amounts of conglomerate, arkose, argillite, iron formation, peridotite and gabbro. Three electromagnetic conductors were tested by diamond drilling. All were found to contain graphitic slate, the apparent cause of the anomalies.

References

Morin (1973a, p.20)

HEMATITE

STEEP ROCK DEPOSIT

Classification

Major occurrence

Commodities

Iron, pyrite, bauxite, goethite, hematite

Location

NTS 52B/13SE

Listed under BAUXITE

LITHIUM

WAGER (MALIGNE RIVER) DEPOSIT

Classification

Major occurrence

Commodities

Lithium (spodumene)

Location

NTS 52B/5NW

North shore of a small pond 1/2 mile north of Poohbah Creek, 1/4 mile east of the Maligne River, Quetico Provincial Park.

Latitude	Longitude
48°23'35"	91°46'45"

Remarks

Early Precambrian biotite gneisses and garnetiferous biotite gneisses are cut by a 40 by 30 foot lithium-bearing pegmatite. The deposit contains 20 to 25 percent spodumene (visual estimation).

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Thunder Bay

File R.C. Wager.

Map Reference

ODM Map 2065 (Pye and Fenwick 1965)

MALIGNE RIVER DEPOSIT 2

Classification

Major occurrence

Commodities

Lithium (spodumene)

Location

NTS 52B/5NE

East bank of the Maligne River where it enters the southernmost tip of Sturgeon Lake, Quetico Provincial Park.

Latitude	Longitude
48°24'45"	91°43'30"

Remarks

The spodumene-bearing granite pegmatite dike intrudes Early Precambrian metasediments.

References

MNR (1974)

INTERNATIONAL LITHIUM (WHEELER-HANBERG) DEPOSIT

Classification

Major occurrence

Commodities

Lithium (spodumene)

Location

NTS 52B/5SW

On the south shore near the east end of Lac La Croix near the mouth of the Maligne River within Quetico Provincial Park.

Latitude	Longitude
48°21'45"	91°59'25"

Remarks

Several spodumene-bearing pegmatite dikes outcrop near the south margin of a 16 mile wide band of Couchiching metasedimentary biotite gneisses (Early Precambrian) that are flanked by large granite masses to the north and south. Trenching and diamond drilling indicate a commercial grade spodumene deposit. One section, 1,000 feet in length, is estimated to contain 1,525,000 tons grading 1.27 percent Li_2O across an average width of 39.5 feet to a depth of 500 feet.

References

Pye (1956, p.73)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Lac La Croix, Latitude 48°15' Longitude 91°45', District Rainy River.

Resident Geologist's Files, Thunder Bay

International Lithium Mining Corp.

Map Reference

ODM Map 2065 (Pye and Fenwick 1965)

TWIN FALLS DEPOSIT

Classification

Major occurrence

Commodities

Lithium (spodumene)

Location

NTS 52B/5SW

On the south shore of an island in the Maligne River at Twin Falls in Quetico Provincial Park. It is 1-1/2 miles east of International Lithium deposit.

Latitude	Longitude
48°22'10"	91°55'58"

Remarks

A 30-foot wide lithium-bearing pegmatite dike intrudes Early Precambrian metasediments (biotite gneiss). It contains 20 percent spodumene.

References

Pye (1956, p.73)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Twin Falls, Latitude 48°15' Longitude 91°45', District Rainy River.

Resident Geologist's Files, Thunder Bay

File Twin Falls Occurrence.

Map Reference

ODM Map 2065 (Pye and Fenwick 1965)

MAGNETITE

BRUCE STAINES (SAPAWE LAKE) PROSPECT

Classification

Major occurrence

Commodities

Magnetite, (iron), cobalt, copper, nickel, pyrite

Location

NTS 52B/14SW

Listed under COBALT

PATTISON (R403 - 212X) DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 52B/14SW

McCaul Township

Just south of the Atikokan River about 1/2 mile north of the CNR line.

Latitude	Longitude
48°45'48"	91°26'07"

Map Reference

ODM Map 2065 (Pye and Fenwick 1965)

138X - 139X (QUINN) DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 52B/14SW

McCaul Township

Just west of a bend in the Atikokan River (on the south side of the river) and north of the CNR line.

Latitude	Longitude
48°45'36"	91°28'00"

Map Reference

ODM Map 38e (Hawley 1929)

PEAT

PEAT MOSS DEPOSIT NO. 18

Classification

Minor occurrences

Commodities

Peat

Location

NTS 52B/9NE

Conacher Township

This deposit is centred 4 km east and 3.2 km south of the northwest corner of the township. Highway 11 passes 400 m south of the southeast end of the deposit.

Latitude	Longitude
48°38'48"	90°06'30"
48°38'06"	90°05'12"

Remarks

The peat deposit is about 111 ha in area; it is 1890 m long in an east-west direction, 240 to 850 m in width, and 2.5 m thick. The area is too small to be regarded as a source of fuel peat at this time.

References

Graham (1979, p.57-59, 96, 119)

PEAT MOSS DEPOSIT NO. 21

Classification

Minor occurrence

Commodities

Peat

Location

NTS 52B/16NE

Fallis and Gibbard Townships

It is centred 5.6 km west of the northeast corner of Fallis Township and extends north into Gibbard Township.

Latitude	Longitude
48°55'20" to 48°56'33"	90°06'30"

Remarks

The deposit covers 172 ha within the Savanne River-Muskeg Lake bog system. Up to 3 m of peat rests on a clay bottom. The rooty nature, limited area, and shallow depth of the deposit preclude its use as a potential source of fuel peat.

References

Graham (1979, p.60-62, 96, 120)

PEAT MOSS DEPOSIT NO. 22

Classification

Minor occurrence

Commodities

Peat

Location

NTS 52B/16NE

Gibbard Township

It is centred 3.2 km north and 4.8 km east of the southeast corner of the township.

Latitude	Longitude
48°57'25"	90°03'55"

Remarks

The deposit covers 150 ha within the Savanne River-Muskeg Lake interconnected muskeg system. An average depth of 3.8 m of peat rests on a clay bottom. There is sufficient sphagnum moss present to be of commercial interest but the area is too limited to be regarded as a potential source of fuel peat.

References

Graham (1979, p.63-65, 97-98, 120)

PEAT MOSS DEPOSIT NO. 23

Classification

Minor occurrence

Commodities

Peat

Location

NTS 52B/16NE

Gibbard Township

Deposit 23 adjoins Deposit 22 on the northwest. It is centred 2 km east of the southwest corner of the township.

Latitude	Longitude
48°58'48"	90°07'49"

Remarks

This is a 313 ha elongated bog extending 5 km to the northwest with an average width of 400 m. An average depth of 2.6 m of peat rests on a sandy clay bottom.

There is insufficient sphagnum moss present to be of commercial interest. The area, even if combined with Deposit 22, is too limited to be regarded as a potential source of fuel peat at this time.

References

Graham (1979, p.66-68, 98-99, 120)

PYRITE

WEST DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite

Location

NTS 52B/9NE

Hagey Township

The property is north and south of Highway No. 11, within 1 mile of the north shore of Middle Shebandowan Lake.

Latitude	Longitude
48°39'00"	90°13'00"

Map Reference

ODM Map 2267 (Morin 1973b)

SHEBANDOWAN MINE

Classification

Producer

Commodities

Pyrite, cobalt, chromite, copper, nickel, platinum, palladium

Location

NTS 52B/9SW

Listed under CHROMITE

COPPER HOOK LAKE (ADDICKS) DEPOSIT

Classification

Major occurrence

Commodities

Pyrite

Location

NTS 52B/13NE

In the vicinity of Copper Hook Lake, about 2-1/2 miles northeast of the northern end of Finlayson Lake.

Latitude	Longitude
48°56'45"	91°31'40"

Map Reference

Map 2298 (Fenwick 1976b)

CANADIAN ADDICKS DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, chalcopyrite, cobalt

Location

NTS 52B/13NE

Listed under COBALT

FIN-LAN (NIC-COP) DEPOSIT

Classification

Minor occurrences

Commodities

Pyrrhotite, pyrite, chalcopyrite

Location

NTS 52B/13NE

On the southwest and southeast shores and on islands adjacent to the southeast shore of Finlayson Lake, 2-1/2 miles from the southern tip of the lake.

Latitude	Longitude
48°53'00"	91°36'45"
48°53'45"	91°36'15"

Map Reference

ODM Map 2065 (Pye and Fenwick 1965)

SCHEIDER DEPOSIT

Classification

Major occurrences

Commodities

Pyrite

Location

NTS 52B/13NE

On the east shore of Finlayson Lake approximately 3 to 4-1/2 miles from the south tip of the lake.

Latitude	Longitude
48°54'34"	91°35'40"
48°53'42"	91°34'20"

Map Reference

ODM Map 2298 (Fenwick 1976b)

BIG SIX PROSPECT

Classification

Major occurrence

Commodities

Pyrite, lead, zinc

Location

NTS 52B/13SE

It is situated 1/4 mile southeast of the east end of Eye Lake.

Latitude	Longitude
48°51'30"	91°40'20"

Map Reference

ODM Map 2298 (Fenwick 1976b)

MACKENZIE-MANN DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 52B/13SE

Freeborn Township

On the west side of Steep Rock Lake behind Birch Point, about 3 miles north of the CNR railway.

Latitude	Longitude
48°45'36"	91°39'36"

Map Reference

OGS Map P.2159 (Schnieders and McConnell 1981)

STEEP ROCK DEPOSIT

Classification

Major occurrence

Commodities

Iron, pyrite, bauxite, goethite, hematite

Location

NTS 52B/13SE

Listed under BAUXITE

STRAWHAT LAKE (QUEBEC CARTIER) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite

Location

NTS 52B/13SE

Schwenger Township

South end of Strawhat Lake.

Latitude	Longitude
48°46'48"	91°36'36"

Map Reference

ODMNA Map 2217 (Shklanka 1972)

BURREX DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite

Location

NTS 52B/14NW

The main showing is near the north end of the small pond northeast of Copper Hook Lake, which is northeast of Finlayson Lake.

Latitude	Longitude
48°58'10"	91°29'55"

Map Reference

ODM Map 2298 (Fenwick 1976b)

ARCHIBALD-HANNA DEPOSIT

Classification

Minor occurrence

Commodities

Iron, pyrrhotite, pyrite, cobalt

Location

NTS 52B/14SW

Listed under COBALT

ATIKOKAN MINE (NORTH RANGE MINING)

Classification

Past producer

Commodities

Iron, copper, cobalt, nickel, pyrite

Location

NTS 52B/14SW

Listed under COBALT

BRUCE STAINES (SAPAWE LAKE) PROSPECT

Classification

Major occurrence

Commodities

Magnetite (iron), cobalt, copper, nickel, pyrite

Location

NTS 52B/14SW

Listed under COBALT

SOAPSTONE

NORTHERN LIGHT LAKE - SOUTHEAST BAY DEPOSIT

Classification

Minor occurrence

Commodities

Talc, soapstone

Location

NTS 52B/7SE

Northeastern shore of Northern Light Lake in Southeast Bay.

Latitude	Longitude
48°15'15"	90°35'00"

Remarks

The region is underlain by Early Precambrian felsic igneous and metamorphic rocks. An older unit containing talc outcrops around Northern Light Lake. It is an undifferentiated mafic to intermediate metavolcanic unit with some metasediments.

References

Pye and Fenwick (1965)

MILK LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Talc, soapstone

Location

NTS 52B/13SW

Asmussen Township

North of the Seine River at the southwest end of Milk Lake. 3 miles northeast of Banning which is on the CNR line.

Latitude	Longitude
48°45'30"	91°55'25"

Remarks

The host rock is a highly contorted chlorite schist, which appears to be an altered mafic tuff cut by a number of small felsite dikes and a quartz vein. Talc lies adjacent to the vein and along the dikes.

References

Moore (1940, p.34)

Map Reference

ODM Map 2065 (Pye and Fenwick 1965)

TALC

NORTHERN LIGHT LAKE SOUTHEAST BAY DEPOSIT

Classification

Minor occurrence

Commodities

Talc, soapstone

Location

NTS 52B/7SE

Listed under SOAPSTONE

UPPER SHEBANDOWAN LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Talc

Location

NTS 52B/9NW

South shore of Upper Shebandowan Lake, approximately 1 km southwest of Anderson Island.

Latitude	Longitude
48°37'50"	90°25'45"

Remarks

The Postans Fault separates Precambrian metasediments to the north from mafic and intermediate undifferentiated metavolcanics to the south. The talc occurrence is found in amphibolite and amphibolite schists of the metavolcanics.

References

Hodgkinson (1968)

Map Reference

ODM Map 2065 (Pye and Fenwick 1965)

GREENWATER LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Talc

Location

NTS 52B/9SW

Northwestern shore of Greenwater Lake. Highway 11 and a CNR line run about 4 miles south of the occurrence.

Latitude	Longitude
48°36'05"	90°28'50"

Remarks

The talc occurrence is found within Early Precambrian mafic intrusive rocks of peridotite composition, flanked on either side by older metavolcanic units.

References

Hodgkinson (1967)

Map Reference

ODM Map 2065 (Pye and Fenwick 1965)

MILK LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Talc, soapstone

Location

NTS 52B/13SW

Listed under SOAPSTONE

NTS 52C INTERNATIONAL FALLS SHEET

APATITE

HALKIRK TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Apatite, rutile, ilmenite

Location

NTS 52C/11NE

Halkirk Township

Latitude	Longitude
48°41'28"	93°02'46"

Remarks

Coarse apatite, rutile and ilmenite have been observed at this location.

References

Harris (1974a, p.79)

Map Reference

ODM Map 2278 (Harris 1974b)

BISMUTH

JACKFISH LAKE (VINALL) DEPOSIT

Classification

Minor occurrence

Commodities

Copper, bismuth (bismuthinite, chalcopyrite, magnetite, pyrite)

Location

NTS 52C/13NE

North end of the northeast arm of Jackfish Lake.

Latitude	Longitude
48°58'30"	93°36'12"

Remarks

A small sulphide deposit containing low values in copper and bismuth occurs at the contact of a granodiorite mass and a lens of amphibolite. Bismuth mineralization appears to be erratic and confined to narrow stringers. Scattered mineralization of chalcopyrite, pyrrhotite, pyrite and magnetite is also found.

References

Blackburn (1976, p.53-55)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Jackfish Lake, District Rainy River, Latitude 48°45' Longitude 93°30'

Resident Geologist's Files, Kenora

File 52C/13NE A-1.

Map Reference

ODMNA Map P.742 (Blackburn 1972)

CLAY

FORT FRANCES DEPOSIT

Classification

Minor occurrence

Commodities

Clay

Location

NTS 52C/11SW

McIrvine Township

Samples taken from bank on the south side of Highway 11 at the west end of Fort Frances.

Latitude	Longitude
48°36'	93°26' (approx.)

Remarks

Minor amounts of clay minerals were found in samples of the 15 foot till exposed at this location. The top 5 feet contains low to moderate amounts of limestone particles and the underlying 5 feet contains more stones averaging 1/4 inch. The stoniness appears to increase with depth.

References

Guillet (1977, p.104-105, 114)

EMO DEPOSIT

Classification

Minor occurrence

Commodities

Clay

Location

NTS 52C/12NW

Lash Township

Sample taken from a roadside bank on Highway 602 on the south side of Emo.

Latitude	Longitude
48°38'	93°50' (approx.)

Remarks

The upper metre of a 3 m clay section was accessible. It consists of alternating layers of yellow-brown silty clay 2.5-5 cm thick, and smooth grey clay up to 0.6 cm thick. Upon firing, the clay becomes tan to cream-buff to buff in colour and the hardness varies from soft to almost hard with temperatures of 1660°F, 1840°F and 1980°F respectively.

References

Guillet (1977, p.113)

GLENORCHY DEPOSIT

Classification

Minor occurrence

Commodities

Clay

Location

NTS 52C/16SW

Near Highway 11, approximately 80 km east of Fort Frances.

Latitude	Longitude
48°45'	92°28' (approx.)

Remarks

Buff-coloured clay upon firing at 1660°F, 1840°F and 1980°F turns from pale salmon to salmon to red brown in colour. It is a smooth textured and attractive clay with hardness varying from fairly soft to steel hard.

References

Guillet (1977, p.102-107, 114)

GRAPHITE

REEF POINT DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, graphite, chalcopyrite

Location

NTS 52C/11NW

Watten Township

A sulphide zone is on the south side of a swamp, 600 feet east of the western end of Reef Point, approximately in the centre of the peninsula in Watten Township.

Latitude	Longitude
48°41'55"	93°16'31"

Remarks

A 20-foot zone of massive sulphides, of the sulphide iron formation type, strikes N95E and dips 83°N. Two of three drill holes intersected sulphides.

References

Harris (1974a, p.76-77)

Map Reference

ODM Map P.522 (Harris 1969a)

YOUNG DEPOSIT 1

Classification

Major occurrence

Commodities

Pyrite, chalcopyrite, graphite

Location

NTS 52C/16SW

Approximately 1.5 miles northeast of Glenorchy Station on the CNR line.

Latitude	Longitude
48°45'36"	92°19'48"

Remarks

Lenses of pyrite from 10 to 60 feet thick, extending 2,000 feet in a northwest direction, cut chlorite schist. Graphite and chalcopyrite are associated with pyrite.

References

Hewitt (1967b, p.47)

Map Reference

ODM Map 2310 (MNR 1974)

LITHIUM

WISA LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 52C/8NE

About 1 mile south of Wisa Lake and 4 miles north of Lac La Croix.

Latitude	Longitude
48°25'15"	92°14'10"

Remarks

Several spodumene-bearing dikes cut metasediments. The spodumene is altered to yellowish brittle mica on the surface of the dikes.

References

Mulligan (1965, p.66)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Wisa Lake, Latitude 48°15' Longitude 92°15', District Rainy River.

MAGNETITE

RYAN (SEINE BAY) DEPOSIT

Classification

Minor occurrence

Commodities

Zinc, magnetite, ilmenite (iron, titanium, vanadium)

Location

NTS 52C/10NW

Halkirk Township

Shaft is on north shore of Seine Bay, east of Wind Bay.

Latitude	Longitude
48°39'53"	92°57'04"

Remarks

This is part of the West or Main Zone of the Seine Bay deposit and is 3,000 feet long and up to 160 feet wide. The West Zone is estimated to contain 22,000 tons per vertical foot of disseminated and massive material, averaging 45.1 percent TiO_2 plus Fe-oxide. Sample taken by Rose in 1969 showed 5.89 percent TiO_2, 22.9 percent FeO, 13.23 percent Fe_2O_3 and 0.172 percent V.

References

Harris (1974a, p.78-79)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Seine Bay, Township Halkirk, District Rainy River.

Map Reference

ODM Map P.586 (Harris 1970a)

SEINE BAY (CENTRAL ZONE) DEPOSIT

Classification

Minor occurrences

Commodities

Magnetite, ilmenite (iron, titanium, vanadium)

Location

NTS 52C/10NW

Halkirk and Farrington Townships

Along the north shore of Seine Bay including southern parts of the townships.

Latitude	Longitude
48°40'03"	92°55'15"
48°40'04"	92°54'55"
48°40'42"	92°51'14"

Remarks

The deposit is part of an easterly trending sill of gabbro which has discontinuous bodies of disseminated to massive ilmenite and magnetite. Two million tons of "high grade" material and a larger amount of "low grade" material were proven by drilling in 1920. Material could be used as a heavy aggregate in construction.

References

Harris (1974a)

Shklanka (1968, p.295-296)

Map Reference

ODM Map 2115 (Davies and Pryslak 1967b)

ODM Map P.586 (Harris 1970a)

ODM Map P.587 (Harris 1970b)

ROCKY ISLET BAY (STRATMAT) DEPOSIT

Classification

Minor occurrences

Commodities

Pyrrhotite, pyrite, magnetite, chalcopyrite

Location

NTS 52C/11NE

Watten Township

On the northwest shore of Rocky Islet Bay

Latitude	Longitude
48°42'45"	93°11'30"
48°42'42"	93°11'28"

Map Reference

ODM Map P.522 (Harris 1969a)

SIMS STATION DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, magnetite, pyrrhotite, chalcopyrite

Location

NTS 52C/11NE

Watten Township

Eastern and western shores of Grassy Portage Bay narrows.

Latitude	Longitude
48°41'02"	93°08'40"
48°40'53"	93°09'38"

Map Reference

ODM Map P.523 (Harris 1969b)

GRASSY PORTAGE BAY DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, magnetite

Location

NTS 52C/11NE

Watten Township

Northern shore of Grassy Portage Bay

Latitude	Longitude
48°41'25"	93°06'35"

Map Reference

ODM Map 2278 (Harris 1974b)

YOUNG DEPOSIT 2

Classification

Minor occurrences

Commodities

Pyrite, chalcopyrite, magnetite

Location

NTS 52C/13NW

Potts Township

Drillholes were put down approximately 1/4 mile southeast of Off Lake and also on the west shore of the lake, just north of the narrows at the lake's southern end.

Latitude	Longitude
48°52'51"	93°50'11"
48°53'55"	93°50'13"

Map Reference

ODM Map P.742 (Blackburn 1972)

JACKFISH LAKE (VANALL) DEPOSIT

Classification

Minor occurrence

Commodities

Copper, bismuth (bismuthinite, chalcopyrite, magnetite, pyrite)

Location

NTS 52C/13NE

Listed under BISMUTH

PEAT

PINEWOOD PEAT BOG

Classification

Past producer

Commodities

Peat

Location

NTS 52C/12NW

Carpenter Township, lots 6, 7, 8, concession IV.

Latitude	Longitude
48°42'	93°47' (approx.)

Remarks

The bog is covered with sphagnum moss, labrador tea and grass, scattered over the area are 1 to 2 inch diameter scrub spruce. Sampling indicated that the depth is over 16 feet. A somewhat dusty peat moss, harvested by hand cutting, was produced by Pinewood Peat Industries from 1945 till sometime after 1950, for insulation purposes.

References

Graham and Tibbetts (1965, p.53-57)

Map Reference

ODM Map 2115 (Davies and Pryslak 1967b)

ARCTIC PEAT MOSS BOG

Classification

Past producer

Commodities

Peat

Location

NTS 52C/12SE

Crozier Township, sections 7 and 8

Latitude	Longitude
48°35'	93°33' (approx.)

Remarks

The peat moss, reportedly 4 feet deep, is composed of mainly sphagnum with some hypnum and smaller quantities of carex and aquatic plant residues. From 1941 to 1952, the Arctic Peat Moss Corporation Limited produced 17,168 tons of peat moss valued at $596,090.

References

Davies (1973, p.28-30)

Graham and Tibbetts (1965, p.26-36)

Map Reference

ODM Map 2115 (Davies and Pryslak 1967b)

PYRITE

LAKATOS-COUSINEAU DEPOSIT

Classification

Minor occurrence

Commodities

Molybdenite, pyrite

Location

NTS 52C/10NW

Halkirk Township

Pit located 1500 feet north of Highway 11, just east of Bear Passage.

Latitude	Longitude
48°42'08"	92°59'23"

Map Reference

ODM Map P.586 (Harris 1970a)

REEF POINT DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, graphite, chalcopyrite

Location

NTS 52C/11NW

Listed under GRAPHITE

AINLEY (NICKEL LAKE MINING) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite

Location

NTS 52C/11NE

Watten Township

Main shaft is on southern shore of Nickel Lake.

Latitude	Longitude
49°41'40"	93°05'17"

Map Reference

ODM Map P.523 (Harris 1969b)

MOOSEHORN LAKE (NORANDA MINES) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 52C/11NE

Watten Township

Claims straddle Highway 11, 4,000 feet northwest of Moosehorn Lake.

Latitude	Longitude
48°41'43"	93°09'00"

Map Reference

ODM Map P.523 (Harris 1969b)

MORRISON (WALLACE) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, chalcopyrite

Location

NTS 52C/11NE

Watten Township

North-trending pit is located on the south side of Nickel Creek, south of Moosehorn Lake.

Latitude	Longitude
48°41'12"	93°07'50"

Map Reference

ODM Map P.523 (Harris 1969b)

MURRAY (BRUNETTE) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 52C/11NE

Watten Township

Pit is southwest of west end of Highway 11 bridge at Rocky Bay Islet.

Latitude	Longitude
48°41'08"	93°11'47"

Map Reference

ODM Map P.522 (Harris 1969a)

PARAMAQUE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, chalcopyrite

Location

NTS 52C/11NE

Watten Township

Eastern edge of township, south of Highway 11.

Latitude	Longitude
49°42'30"	93°05'19"

Map Reference

ODM Map P.523 (Harris 1969b)

ROCKY ISLET BAY (STRATMAT) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, magnetite, chalcopyrite

Location

NTS 52C/11NE

Listed under MAGNETITE

SIMS STATION DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, magnetite, pyrrhotite, chalcopyrite

Location

NTS 52C/11NE

Listed under MAGNETITE

WEISS COOPER (EAST BRUDON) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite

Location

NTS 52C/11NE

Watten Township

Halfway between Nickel Lake and eastern boundary of township.

Latitude	Longitude
48°42'08"	93°05'14"

Map Reference

ODM Map P.523 (Harris 1969b)

GRASSY PORTAGE BAY DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, magnetite

Location

NTS 52C/11NE

Listed under MAGNETITE

NORANDA EXPLORATION DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, chalcopyrite

Location

NTS 52C/13NW

Senn Township

Pyrite exposed in a road cut north of Off Lake: drill holes northwest of the lake encountered pyrite and other minerals.

Latitude	Longitude
48°54'50"	93°49'35"
48°55'10"	93°49'12"

Map Reference

ODM Map 2325 (Blackburn 1975)

YOUNG DEPOSIT 2

Classification

Minor occurrence

Commodities

Pyrite, chalcopyrite, magnetite

Location

NTS 52C/13NW

Listed under MAGNETITE

JACKFISH LAKE (VINALL) DEPOSIT

Classification

Minor occurrence

Commodities

Copper, bismuth (bismuthinite, chalcopyrite, magnetite, pyrite)

Location

NTS 52C/13NE

Listed under BISMUTH

YOUNG DEPOSIT 1

Classification

Major occurrence

Commodities

Pyrite, chalcopyrite, graphite

Location

NTS 52C/16SW

Listed under GRAPHITE

RUTILE

HALKIRK TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Apatite, rutile, ilmenite

Location

NTS 52C/11NE

Listed under APATITE

SOAPSTONE

SEINE RIVER DEPOSIT

Classification

Minor occurrence

Commodities

Talc (soapstone)

Location

NTS 52C/15SE

On southeast shore of Little Turtle Lake, approximately 1 mile west of Mine Centre Station.

Latitude	Longitude
48°46'24"	92°38'06"

Remarks

Soft, fine-grained soapstone with widths ranging from 10 to 25 feet occur in beds exposed for 300 to 600 feet.

References

Spence (1940, p.67)

Map Reference

ODM Map 2115 (Davies and Pryslak 1967b)

STONE

LOBSTICK ISLAND QUARRY

Classification

Minor occurrence

Commodities

Stone

Location

NTS 52C/11NW

Watten Township

Quarry cuts across Highway 11 on Lobstick Island.

Latitude	Longitude
48°39'45"	93°16'45"

Remarks

The quarry is in what is referred to as the Rocky Islet Bay Complex. At Highway 11, medium- to coarse-grained massive hornblendite is exposed. This hornblendite is cut by medium-grained diorite.

References

Harris (1974a, p.29-31)

Map Reference

ODM Map P.522 (Harris 1969a)

TALC

SEINE RIVER DEPOSIT

Classification

Minor occurrence

Commodities

Talc (soapstone)

Location

NTS 52C/15SE

Listed under SOAPSTONE

TITANIUM

RYAN (SEINE BAY) DEPOSIT

Classification

Minor occurrence

Commodities

Zinc, magnetite, ilmenite (iron, titanium, vanadium)

Location

NTS 52C/10NW

Listed under MAGNETITE

SEINE BAY (CENTRAL ZONE) DEPOSIT

Classification

Minor occurrences

Commodities

Magnetite, ilmenite (iron, titanium, vanadium)

Location

NTS 52C/10NW

Listed under MAGNETITE

BAD VERMILLION (SEINE BAY) DEPOSIT

Classification

Minor occurrence

Commodities

Iron, titanium (vanadium)

Location

NTS 52C/10NE

East of Farrington Township, on the west shore of Bad Vermillion Lake.

Latitude	Longitude
48°42'51"	92°44'30"

Remarks

This occurrence is at the east end of a continuous 14 mile long titaniferous deposit. Massive ilmenite and magnetite bodies are disseminated throughout this easterly trending sill of gabbro. The rock could be used as a heavy aggregate in construction.

References

Shklanka (1968, p.295-296)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Kenora
File 52C/10NW E-1.

Map Reference

ODM Map P.293 (Davies and Pryslak 1965b)

ODM Map 2115 (Davies and Pryslak 1967b)

NTS 52D PART OF ROSEAU SHEET

CLAY

RAINY RIVER DEPOSIT

Classification

Minor occurrence

Commodities

Clay

Location

NTS 52D/10NE

Curran Township

Sample taken from bank of Rainy River, 2 miles west of the Town of Rainy River.

Latitude	Longitude
48°44'21"	94°36'10"

Remarks

Stratified silty clay is interlayered with seams of fine sand. Hardness ranges from very soft to moderately soft.

References

Guillet (1977, p.113)

PEAT

POLAR BEAR BOG

Classification

Past producer

Commodities

Peat

Location

NTS 52D/16SW/SE

Nelles and Pattullo Townships

Sections 24 and 25 in Nelles Township and sections 19 and 30 in Pattullo Township.

Latitude	Longitude
48°47'25"	94°10'58"
48°48'20"	94°15'03"

Remarks

The Pinewood Bog occupies an area of about 23 square miles. The corner in the Polar Bear section is sphagnum moss, labrador tea and some cotton grass with an overgrowth of scattered scrub spruce. The bog ranges from 4 to 12 feet in depth. The peat is generally light in weight, elastic and light brown in colour.

References

Graham and Tibbetts (1965, p.73-77)

Leverin (1943, p.30-31)

Map Reference

ODM Map 2115 (Davies and Pryslak 1967b)

NTS 52E PART OF KENORA SHEET

ASBESTOS

LABYRINTH BAY DEPOSIT

Classification

Minor occurrence

Commodities

Talc, asbestos (soapstone)

Location

NTS 52E/10SW

Northwest shore, Labyrinth Bay

Latitude	Longitude
49°36'30"	94°49'40"

Remarks

Serpentine exposures have been seen on the shores of Shoal Lake Narrows and Labyrinth Bay. Metamorphosed olivine is associated with the mafic and ultramafic sills in the area, and it has been completely serpentinized.

References

Davies (1978, p.31-32)

Lawson (1886, p.126)

Map Reference

ODM Map P.594 (Davies 1970)

SHOAL LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Asbestos

Location

NTS 52E/10SW

Asbestos fibres have been noted 1 mile east of Machin Point and 300 feet northwest of Labyrinth Bay (Shoal Lake and Labyrinth areas).

Latitude	Longitude
49°36'30"	94°50'10"
49°33'25"	94°54'55"

Remarks

Seams of brittle asbestos fibre occur in altered peridotite. The seams are few in number, less than 2 feet in length and less than 1/4 inch in width. No chrysotile asbestos was encountered.

References

Davies (1969; 1970)

BERYL

FALCON ISLAND DEPOSIT

Classification

Minor occurrences

Commodities

Mica, feldspar, beryl

Location

NTS 52E/7SW

Pits and trenches are located on Mica Point, southeastern end of Falcon Island, Lake of the Woods.

Latitude	Longitude
49°19'50"	94°47'20"
49°21'08"	94°46'20"

Remarks

Feldspar and mica were mined from a mica-bearing pegmatite dike in 1926-1927 by the Winnipeg Roofing Company. Some of this was sent to the company's plant in Winnipeg for stucco purposes. The dike strikes northwest through what appears to be well banded schists and is composed largely of pink and white feldspar with some quartz. Large muscovite crystals are seen along the contact walls. Several large crystals of beryl were found in the pegmatite.

References

Hewitt (1967a, p.20,30)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Kenora
File 52E/7SW & SE, B-1.

Map Reference

ODM Map 2115 (Davies and Pryslak 1967b)

COBALT

ALCOCK (CHIMO-ALCOCK) DEPOSIT

Classification

Minor occurrence

Commodities

Copper, cobalt, zinc, gold, silver

Location

NTS 52E/11NE

Ewart Township

Approximately 1 mile east of High Lake, and 2-1/2 miles south of Highway 17.

Latitude	Longitude
49°42'05"	95°04'49"

Remarks

An exposure of a disseminated sulphide zone occurs in felsic and mafic volcanic rocks (sheared basalt). The main sinuous shear zone strikes east and is of limited extent. Grab samples contained 3 percent zinc, 1 percent copper, 0.25 percent cobalt, 0.08 ounces gold per ton, and 3 ounces silver per ton.

References

Davies (1965b, p.48-49)

Shklanka (1969, p.187)

Map Reference

ODM Map 2069 (Davies 1965c)

FELDSPAR

FALCON ISLAND DEPOSIT

Classification

Minor occurrences

Commodities

Mica, feldspar, beryl

Location

NTS 52E/7SW

Listed under BERYL

GRAPHITE

TUG CHANNEL DEPOSIT

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 52E/7SE

Small island east of Falcon Island, in Tug Channel, Lake of the Woods.

Latitude	Longitude
49°21'50"	94°42'30"

Remarks

A sample of graphitic schist, that appears to be rich in graphite, was taken from the island's east shore which is composed of hornblende schist. A gossan showing is found on the southwestern part of the island. The sample is typical of many of the graphitic schists in the area, containing no flakes, and is about 40 percent carbon.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Kenora
File 52E/7SE A-1.

Map Reference

ODM Map P.281 (Davies and Pryslak 1965a)

MARIPOSITE

NORTHERN PENINSULA DEPOSIT

Classification

Minor occurrence

Commodities

Mariposite

Location

NTS 52E/10NE

Pits are located several hundred feet north of the southern shoreline of the Northern Peninsula, northwest of Fox Island, Lake of the Woods.

Latitude	Longitude
49°39'25"	94°36'40"

Remarks

Apple green mariposite-bearing schist is found within a zone of highly altered schists. The rocks show intense shearing, have become silicified and much carbonate is in evidence. The mariposite was quarried for use as an ornamental rock, chiefly for fireplaces.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Kenora
File 52E/10NE G-1, I-2, I-1.

MICA

FALCON ISLAND DEPOSIT

Classification

Minor occurrences

Commodities

Mica, feldspar, beryl

Location

NTS 52E/7SW

Listed under BERYL

SOAPSTONE

COSTE ISLAND DEPOSIT

Classification

Minor occurrence

Commodities

Soapstone

Location

NTS 52E/7NE

Southeast corner of Coste Island to a point on Alneau Peninsula, Lake of the Woods.

Latitude	Longitude
49°25'12"	94°42'15"

Remarks

The soapstone, taken from this area by Indians for use in making pipes, is a very talcy, altered mafic or ultramafic unit within fresher, amphibolitic basalt, possibly with some mafic tuffs. Lawson reported the rock to be "soft, sectile and frequently free from grit, taking a moderately fine polish with ease...." (Lawson 1886, p.148cc).

References

Lawson (1886)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Kenora
File 52E/7NE C-1.

ANDREW BAY DEPOSIT

Classification

Minor occurrence

Commodities

Talc, soapstone

Location

NTS 52E/9NW

Manross Township

Approximately 12 miles southeast of Kenora on Pipestone Portage

Latitude	Longitude
49°37'30"	94°20'17"

Remarks

Soapstone occurs as a band, approximately 75 feet wide, enclosed in a harder grey slate. The stone is not a true soapstone but a soft chloritic slate with harsh texture and slaty cleavage. It yields a dirty grey powder having little or no slip. In 1915, four carloads were shipped to the Dryden Timber and Power Company for lining smelting furnaces but proved unsatisfactory.

References

Hewitt (1972, p.38)

Spence (1940, p.63-64)

Map Reference

ODM Map 2115 (Davies and Pryslak 1967b)

LABYRINTH BAY DEPOSIT

Classification

Minor occurrence

Commodities

Talc, asbestos (soapstone)

Location

NTS 52E/10SW

Listed under ASBESTOS

STONE

RUSH BAY QUARRIES

Classification

Producer

Commodities

Stone

Location

NTS 52E/10NW

Forgie Township

1-3/4 miles south of Highway 17, on Rush Bay Road.

Latitude	Longitude
49°41'43"	94°56'00"

Remarks

Flagstone slabs are being quarried for use in fireplaces. The rock consists of quartz-sericite schist and argillite, part of a sequence of altered and schistose felsic volcanic tuffs. The colour of the rock varies from reddish to greenish (containing chrome mica) to black.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Kenora

WHITE QUARRY

Classification

Producer

Commodities

Stone

Location

NTS 52E/14NE

Rice Township

On CNR line, 3 miles east of Manitoba border.

Latitude	Longitude
49°53'50"	95°06'40"

Remarks

Granitic rock has been quarried intermittently for use as railroad ballast (Jack Charlesworth, Ministry of Natural Resources, Kenora, personal communication, 1979). More recently, crushed rock has been stockpiled for use as required for roadbed ballast.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Kenora.

REDDITT DEPOSIT

Classification

Minor occurrence

Commodities

Stone

Location

NTS 52E/16NW

Redditt Township

Quarry is located on CNR line, approximately 1 mile west of Redditt.

Latitude	Longitude
49°58'10"	94°25'15"

Remarks

Stone was quarried for use as railroad ballast. The quarry was later worked for crushed rock for use in road building. It is now being worked for sand and gravel (Jack Charlesworth, Ministry of Natural Resources, Kenora, personal communication, 1979).

TALC

ANDREW BAY DEPOSIT

Classification

Minor occurrence

Commodities

Talc, soapstone

Location

NTS 52E/9NW

Listed under SOAPSTONE

WITCH BAY DEPOSIT

Classification

Minor occurrence

Commodities

Talc

Location

NTS 52E/9SW

Manross Township

North shore of Witch Bay, Lake of the Woods.

Latitude	Longitude
49°35'49"	94°15'29"

Remarks

Soapstone from Pipestone Point is a soft, decomposed or steatitic variety of hornblendic schist. The Witch Bay occurrence is probably of similar type of material (Resident Geologist, Kenora, personal communication, 1979).

References

Hewitt (1972, p.38)

Map Reference

ODM Map P.281 (Davies and Pryslak 1965a)

LABYRINTH BAY DEPOSIT

Classification

Minor occurrence

Commodities

Talc, asbestos (soapstone)

Location

NTS 52E/10SW

Listed under ASBESTOS

NTS 52F DRYDEN SHEET

ASBESTOS

KAKAGI LAKE DEPOSIT 1

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 52F/4NW

On a small island in the northern part of Kakagi Lake.

Latitude	Longitude
49°14'40"	93°54'21"

Remarks

The deposit is found at a fault zone in peridotite. Minor occurrences of cross-fibre picrolite asbestos have been encountered in the serpentinized peridotite sill rocks in the area.

References

Burwash (1934, p.60-63)

Map Reference

ODM Map P.921 (Kaye 1974)

GODSON TOWNSHIP DEPOSIT 1

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 52F/4NW

Godson Township

Approximately 7 miles northeast of Nestor Falls, south of Kakagi Lake.

Latitude	Longitude
49°10'10"	93°47'48"

Remarks

The deposit is situated where a fault in peridotite meets massive basalt, andesite lava and gabbro. Picrolite asbestos occurs as cross-fibres in fractures.

References

Burwash (1934, p.60-63)

Map Reference

ODM Map P.921 (Kaye 1974)

BERYL

MEDICINE LAKE (FALCONBRIDGE) DEPOSIT

Classification

Minor occurrences

Commodities

Beryl, tourmaline, tantalite

Location

NTS 52F/13SW

Tustin Township

Between Medicine and Lift Lakes at the Gordon Lake Development Road.

Latitude	Longitude
49°51'49"	93°46'35"
49°51'47"	93°46'23"
49°51'48"	93°46'21"

Remarks

A medium- to coarse-grained pegmatite intrusion underlies the area of deposits. It is composed of feldspar and quartz, with minor amounts of biotite and muscovite, rare black tourmaline, red garnet, yellow to clear beryl and black tantalite.

References

Pryslak (1976, p.34-35)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Kenora
File 52F/13SW T-1, J-1.

Map Reference

ODM Map P.472 (Pryslak 1968b)

ZEALAND TOWNSHIP DEPOSIT 1

Classification

Minor occurrences

Commodities

Beryl, tourmaline

Location

NTS 52F/15SE

Zealand Township

Approximately 5-1/2 miles northeast of Dryden.

Latitude	Longitude
49°48'20"	92°43'40"
49°48'50"	92°43'28"

Remarks

Tourmaline pegmatite dikes are numerous in the area and range from a fraction of an inch to several feet in width. Small green beryl crystals are present in the pegmatite deposits.

References

Hewitt (1967a, p.38)

Satterly (1943, p.55)

Map Reference

ODM Map P.1204 (Breaks, Bond, Harris et al. 1976)

ODM Map 2115 (Davies and Pryslak 1967b)

BISMUTH

NAVIMAR LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Molybdenite, bismuthinite

Location

NTS 52F/7NW

Situated about 25 miles due south of Dryden Station.

Latitude	Longitude
49°27'02"	92°50'12"

Remarks

There is a small pocket of minerals in a well-defined pegmatitic quartz vein that extends for 250-300 feet. A number of trenches were excavated; a bulk sample taken from the trenches contained an average of 1.48 percent molybdenum.

References

Blackburn (1979, p.57,64)

Map Reference

ODM Map P.961 (Blackburn 1974)

PIDGEON DEPOSIT

Classification

Major occurrences

Commodities

Molybdenite, ferromolybdite, chalcopyrite, pyrite, bismuthinite, magnetite, muscovite, fluorite

Location

NTS 52F/16NW

Echo Township

Main showings are in lots 8, 9, concession V, east of Lateral Lake.

Latitude	Longitude
49°57'07"	92°21'30"
49°57'01"	92°21'35"
49°56'55"	92°21'52"

Remarks

In muscovite granite pegmatite, bismuthinite occurs as minute prismatic crystals.

References

Satterly (1960, p.29,30)

Map Reference

ODM Map P.1204 (Breaks, Bond, Harris et al. 1976)

CESIUM

KOSOWY-LEDUCHOWSKI DEPOSIT

Classification

Minor occurrence

Commodities

Cesium, lithium

Location

NTS 52F/16NW

Webb Township

Latitude	Longitude
49°55'10"	92°28'00"

Remarks

A northwest-trending pegmatite dike, exposed by stripping over a length of about 170 feet, lies at the eastern edge of an outcrop of mafic volcanic rock and amphibolite. Spodumene, tourmaline and a green mica occur with quartz and feldspar in most of the exposed area. A chip sample assayed 1 percent lithium.

References

Hewitt (1967a, p.48)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Sioux Lookout

File 52F/16NW (15), (16).

Map Reference

ODM Map P.1204 (Breaks, Bond, Harris et al. 1976)

ODM Map 2115 (Davies and Pryslak 1967b)

FLUORITE

TRASHER DEPOSIT

Classification

Minor occurrence

Commodities

Fluorite

Location

NTS 52F/5NW

Located on the north shore of Lobstick Bay, east of Willingdon Township.

Latitude	Longitude
49°24'10"	93°55'00"

Remarks

The fluorite, of the purple variety, is found throughout the diamond drill core as fine-grained crystals.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Kenora

File 52F/5NW H-1.

Map Reference

ODM Map 2115 (Davies and Pryslak 1967b)

DOME EXPLORATION DEPOSIT

Classification

Minor occurrence

Commodities

Molybdenite, fluorite

Location

NTS 52F/8NW

Between Mennin and Kawashegamuk Lakes, approximately 34 miles southwest of Dryden.

Latitude	Longitude
49°27'20"	92°17'30"

Remarks

There are narrow and scattered quartz veins in a basalt-granite complex. Minor fluorite was encountered in diamond drill holes.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Kenora

File 52F/8NW E-1.

Map Reference

ODM Map P.242 (Davies 1964)

GRAPHITE

CANICO DEPOSIT 1

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 52F/4NE

Between South Otterskin and Hospital Lakes.

Latitude	Longitude
49°12'58"	93°35'58"

Remarks

Graphite and pyrite were encountered in intermediate metavolcanics in a diamond drill hole.

References

Edwards (1980, p.54)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Kenora

File 52F/4NE D-1.

Map Reference

ODM Map P.1000 (Edwards 1975)

FREEPORT-BETH DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, graphite

Location

NTS 52F/4NE

Five occurrences are at the southern end of Schistose Lake and one occurrence is on the north shore of Pipestone Lake near Fish Island.

Latitude	Longitude
49°08'25"	93°34'20"
49°08'10"	93°34'18"
49°07'55"	93°34'02"
49°08'18"	93°34'45"
49°08'38"	93°35'30"
49°08'10"	93°30'32"

Remarks

Graphitic and pyritic zones, mainly in feldspathic volcanic-derived metasediments, were intersected in six diamond drilling locations.

References

Edwards (1980, p.56-58)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Kenora
File 52F/4NE B-1, C1.

Map Reference

ODM Map P.1000 (Edwards 1975)

HBOG DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, graphite

Location

NTS 52F/4NE

Two diamond drill holes at southeast arm of Cameron Lake.

Latitude	Longitude
49°14'35"	93°41'02"
49°14'41"	93°40'59"

Remarks

Graphitic and pyritic zones in sheared tuff and shale were encountered in diamond drilling.

References

Edwards (1980, p.56-59)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Kenora
File 52F/4NE E-1.

Map Reference

ODM Map P.1000 (Edwards 1975)
ODM Map P.1025 (Beard and Garratt 1975)

KENNCO DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, graphite

Location

NTS 52F/4NE

Approximately 1/2 mile south of the eastern end of Kakagi Lake

Latitude	Longitude
49°10'48"	93°40'58"

Remarks

Graphitic and pyritic zones in mafic flows and tuffs were intersected in diamond drilling.

References

Edwards (1980, p.56-59)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Kenora
File 52F/4NE D-2, F-1.

Map Reference

ODM Map P.1000 (Edwards 1975)

SELCO DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, graphite

Location

NTS 52F/4NE

Adjacent to South Otterskin and Brooks Lakes.

Latitude	Longitude
49°12'48"	93°37'04"

Remarks

Black graphite is abundant for 35 feet of a diamond drill hole and occurs with quartz veins.

References

Edwards (1980, p.31,61)

Map Reference

ODM Map P.1000 (Edwards 1975)

MEEHAN DEPOSIT

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 52F/14NW

Wabigoon Township, lot 5, concession XII.

Latitude	Longitude
49°57'18"	93°27'44"

Remarks

Graphite occurs in garnet-biotite schist, 60 feet wide, traced over a length of 3/4 mile. Schist strikes 120° dipping 85°N. Graphite is reported to assay 1.25-2 percent.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Kenora
File 52F/14NW C-1.

HARTMAN LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 52F/16SW

Hartman Township

Approximately 1-1/2 miles northwest of Hartman Lake.

Latitude	Longitude
49°45'23"	92°28'09"

Remarks

Graphite occurs in granite that is Algoman (Early Precambrian) in age. The rock is medium to coarse grained.

References

Satterly (1943, p.37,41)

Map Reference

ODM Map P.242 (Davies 1964)

HEMATITE

KEKEKWA LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Hematite

Location

NTS 52F/7NW

Approximately 3/4 mile east of Kekekwa Lake.

Latitude	Longitude
49°28'47"	92°48'05"

Remarks

Deposit occurs in Early Precambrian felsic plutonic rocks: equigranular biotite quartz monzonite and granodiorite.

References

Blackburn (1974)

LITHIUM

LUN-ECHO DEPOSIT

Classification

Minor occurrence

Commodities

Lithium

Location

NTS 52F/15SE

Brownridge Township

South shore of Mavis Lake.

Latitude	Longitude
49°48'45"	92°39'25"

Remarks

Pegmatite dikes occur in biotite schist. Diamond drill holes outlined about 500,000 tons of material averaging 1.0 percent lithium. Spodumene, tourmaline, apatite, feldspar and quartz occur in irregular lenses and masses within the dikes.

References

Mulligan (1965, p.63-64)

Map Reference

ODM Map 2115 (Davies and Pryslak 1967b)

MILESTONE DEPOSIT

Classification

Minor occurrence

Commodities

Lithium

Location

NTS 52F/15SE

Brownridge Township

East side of Mavis Lake.

Latitude	Longitude
49°48'55"	92°38'01"

Remarks

Lithium occurs in a pegmatite dike that trends approximately northwest and is exposed over 700 feet with a varying width of 15-60 feet. Assays indicated that the pegmatite contains up to 20 percent spodumene with 1.20 percent Li_2O.

References

Hewitt (1967a, p.48)

Map Reference

ODM Map 2310 (MNR 1974)

KOSOWY-LEDUCHOWSKI DEPOSIT

Classification

Minor occurrence

Commodities

Cesium, lithium

Location

NTS 52F/16NW

Listed under CESIUM

MAGNETITE

GODSON TOWNSHIP DEPOSIT 2

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 52F/4NW

Godson Township

Latitude	Longitude
49°09'11"	93°45'49"

Map Reference

ODM Map P.921 (Kaye 1974)

ROWAN LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, chalcopyrite, malachite, magnetite, pyrrhotite

Location

NTS 52F/5SE

Latitude	Longitude
49°21'37"	93°38'01"
49°20'57"	93°37'36"
49°21'37"	93°36'57"
49°20'57"	93°40'04"

Remarks

The showing occurs in mafic to ultramafic intrusions of Keewatin (Early Precambrian) age.

References

Burwash (1934, p.49-50)

Map Reference

ODM Map P.831 (Kaye 1973)

MALACHITE

KAKAGI LAKE DEPOSIT 2

Classification

Minor occurrence

Commodities

Malachite, pyrite

Location

NTS 52F/4NW

Kakagi Lake

Latitude	Longitude
49°12'50"	93°53'01"

Remarks

The showing occurs in mafic to ultramafic igneous rock of Keewatin (Early Precambrian) age.

References

Burwash (1934, p.49-55)

Map Reference

ODM Map P.921 (Kaye 1974)

ROWAN LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, chalcopyrite, malachite, magnetite, pyrrhotite

Location

NTS 52F/5SE

Listed under MAGNETITE

MICA

HARRISON (COBBLE LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Mica, tourmaline, (niobium-tantalum)

Location

NTS 52F/13SE

Bridges Township

Small peninsula that extends northeastward from the south shore of Cobble Lake.

Latitude	Longitude
49°51'48"	93°39'15"

Remarks

Muscovite-bearing pink pegmatite with biotite and tourmaline in lesser amounts are found in the area. Minor blue-green garnet and rare tantalite columbite have also been identified.

References

Pryslak (1976, p.34-35)

Map Reference

ODM Map P.505 (Pryslak 1969a)

NIOBIUM

HARRISON (COBBLE LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Mica, tourmaline, (niobium-tantalum)

Location

NTS 52F/13SE

Listed under MICA

PYRITE

ENTWINE LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, chalcopyrite

Location

NTS 52F/2NE

Entwine Lake Area.

Latitude	Longitude
49°12'58"	92°40'29"

Map Reference

ODM Map P.292 (Davies 1965a)

FURLONGE LAKE (DRUMMOND) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite

Location

NTS 52F/3SW

Northwest side of Furlonge Lake.

Latitude	Longitude
49°05'30"	93°23'15"

Map Reference

ODM Map 43a (Thomson 1934)

KAKAGI LAKE DEPOSIT 2

Classification

Minor occurrence

Commodities

Malachite, pyrite

Location

NTS 52F/4NW

Listed under MALACHITE

CANICO DEPOSIT 2

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 52F/4NE

Approximately 1/4 mile east of north end of Brown Trout Lake.

Latitude	Longitude
49°10'43"	93°43'17"

Map Reference

ODM Map P.1000 (Edwards 1975)

FREEPORT-BETH DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, graphite

Location

NTS 52F/4NE

Listed under GRAPHITE

HBOG DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, graphite

Location

NTS 52F/4NE

Listed under GRAPHITE

KENNCO DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, graphite

Location

NTS 52F/4NE

Listed under GRAPHITE

SELCO DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, graphite

Location

NTS 52F/4NE

Listed under GRAPHITE

ROWAN LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, chalcopyrite, malachite, magnetite, pyrrhotite

Location

NTS 52F/5SE

Listed under MAGNETITE

LANGTON TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite

Location

NTS 52F/14SW

Langton Township

Latitude	Longitude
49°50'57"	93°24'39"

Map Reference

ODM Map P.1203 (Breaks, Bond, Westerman and Harris 1976)

BLUETT LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite

Location

NTS 52F/15NE

McIlraith Township

East of Bluett Lake.

Latitude	Longitude
49°58'06"	92°32'16"
49°57'34"	92°30'04"
49°56'29"	92°32'16"

Map Reference

ODM Map P.1204 (Breaks, Bond, Harris et al. 1976)

DROPE TOWNSHIP DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, chalcopyrite, pyrrhotite

Location

NTS 52F/15NE

Drope Township

Latitude	Longitude
49°56'21"	92°33'05"
49°55'32"	92°30'01"

Map Reference

ODM Map P.1204 (Breaks, Bond, Harris et al. 1976)

VAN HORNE TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 52F/15SW

Van Horne Township

Latitude	Longitude
49°46'45"	92°55'04"
49°45'02"	92°55'04"

Map Reference

ODM Map P.1203 (Breaks, Bond, Westerman and Harris 1976)

ECHO TOWNSHIP DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite

Location

NTS 52F/16NW

Echo Township

Latitude	Longitude
49°53'55"	92°21'22"
49°53'06"	92°20'21"
49°54'11"	92°15'25"

Map Reference

ODM Map P.1204 (Breaks, Bond, Harris et al. 1976)

MCCOMBE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, copper, molybdenum

Location

NTS 52F/16NE

Jordan Township

Northwest of Lyon Bay.

Latitude	Longitude
49°57'39"	92°03'05"

Map Reference

ODM Map P.1204 (Breaks, Bond, Harris et al. 1976)

VERMILION LAKE DEPOSIT

Classification

Major occurrence

Commodities

Pyrite, gold

Location

NTS 52F/16NE

Vermilion Township

Latitude	Longitude
49°57'39"	92°11'30"

Map Reference

ODM Map 2310 (MNR 1974)

MCAREE TOWNSHIP DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite, sphalerite

Location

NTS 52F/16SW

McAree Township

Latitude	Longitude
49°51'55"	92°21'47"
49°51'08"	92°21'59"
49°51'23"	92°18'30"
49°52'26"	92°20'21"

Map Reference

ODM Map P.1204 (Breaks, Bond, Harris et al. 1976)

SOAPSTONE

MILE LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Soapstone

Location

NTS 52F/10NW

Southeast and northeast shores of Mile Lake.

Latitude	Longitude
49°40'30"	92°46'08"
49°41'20"	92°46'30"

Remarks

The soapstone found on the southeast shore is medium-grained and blotchy green and grey. It is probably a highly altered, ultramafic lens in the gabbro. The soapstone on the northeast shore is a greenish, coarse-grained rock with aggregates of biotite, probably metamorphic in origin.

References

Hewitt (1972, p.41)

Map Reference

ODM Map P.242 (Davies 1964)

ODM Map 50e (Satterly 1941)

WABIGOON (PIDGEON) DEPOSIT

Classification

Minor occurrence

Commodities

Soapstone, talc

Location

NTS 52F/10NE

Zealand Township

Approximately 1-1/2 miles west of Wabigoon Station on the peninsula that forms the west boundary of Barritt Bay in the eastern part of Wabigoon Lake.

Latitude	Longitude
49°43'24"	92°38'00"

Remarks

The deposit occurs in a gabbro mass. The soapstone is a dark-grey soft rock containing rhombs of a brown carbonate. The stone is composed largely of talc with some chlorite and dolomite and is considered of good quality for general purpose use.

References

Hewitt (1972, p.38)

Map Reference

ODM Map 2115 (Davies and Pryslak 1967b)

ODM Map 50e (Satterly 1941)

EAGLE LAKE QUARRY (GRACE MINE)

Classification

Past producer

Commodities

Soapstone, talc, chlorite

Location

NTS 52F/11NW

On the west shore of Eagle Lake.

Latitude	Longitude
49°40'00"	93°18'50"

Remarks

Dark bluish-green soapstone is in an altered volcanic flow cut by veinlets and lenses of carbonate (calcite and ankerite). The calcite is associated with greenish coarse talc and chlorite, ankerite and disseminated sulphides.

References

Hewitt (1972, p.44-45)

Moorhouse (1941)

Map Reference

ODM Map 2115 (Davies and Pryslak 1967b)

ZEALAND TOWNSHIP DEPOSIT 2

Classification

Minor occurrence

Commodities

Soapstone

Location

NTS 52F/15SE

Zealand Township, N1/2 lot 6, concession III.

Latitude	Longitude
49°45'03"	92°36'10"

Remarks

The soapstone is believed to be a small boss since it truncates the strike of the metasediments.

References

Hewitt (1972, p.43)

Map Reference

ODM Map 50e (Satterly 1941)

STONE

EAGLE LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Stone

Location

NTS 52F/11NW

Southwestern part of Eagle Lake.

Latitude	Longitude
49°38'47"	93°18'17"

Remarks

Laurentian granite in the southwestern part of Eagle Lake is good building stone.

References

Parsons (1911, p.196)

Map Reference

ODM Map 2310 (MNR 1974)

CPR (HAWK LAKE) QUARRY

Classification

Producer

Commodities

Stone

Location

NTS 52F/13SW

MacNicol Township

Latitude	Longitude
49°48'30"	93°59'40"

Remarks

The quarry is in massive gneissic equigranular granodiorite. It has been used intermittently since 1926 to produce crushed rock for ballast.

References

Pryslak (1976, p.36-37)

Map Reference

ODM Map P.471 (Pryslak 1968a)

UNIVERSAL GRANITE (VERMILION BAY) QUARRY

Classification

Producer

Commodities

Building stone

Location

NTS 52F/13SE

Docker Township

On the south shore of Aaron Lake.

Latitude	Longitude
49°49'40"	93°30'05"

Remarks

At this location, there is an orange-pink, medium-grained, biotite granite. It has few imperfections but is considered to be of good quality and it has been quarried for building stone in the past.

References

Hewitt (1964b, p.44-47)

Pryslak (1976, p.35,52)

Map Reference

ODM Map P.544 (Pryslak 1969b)

NELSON QUARRY

Classification

Producer

Commodities

Building stone

Location

NTS 52F/14SW

Docker Township

South side of Highway 17, about 6 miles west of Vermilion Bay.

Latitude	Longitude
49°49'26"	92°29'52"

Remarks

An orange-pink, medium-grained, biotite granite is quarried for use as building stone. Approximately 20,000 cubic feet was produced in 1981.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Kenora

TALC

KAKAGI LAKE DEPOSIT 3

Classification

Minor occurrence

Commodities

Talc

Location

NTS 52F/4NW

Northern part of Kakagi Lake.

Latitude	Longitude
49°08'50"	93°53'00"

Remarks

The deposit is located in a setting of mafic and ultramafic igneous rocks of Early Precambrian age.

Map Reference

ODM Map P.281 (Davies and Pryslak 1965a)

TRAP LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Talc

Location

NTS 52F/10NW

On islands 249 and 246 near the outlet of Trap Lake.

Latitude	Longitude
49°40'00"	92°46'42"

Remarks

Medium-grained soapstone, greenish-grey in colour, occurs on both islands. The soapstone is almost entirely talc with small amounts of chlorite, magnetite and dolomite.

References

Hewitt (1972, p.41)

Satterly (1943, p.53-55)

Map Reference

ODM Map P.242 (Davies 1964)

WABIGOON (PIDGEON) DEPOSIT

Classification

Minor occurrence

Commodities

Soapstone, talc

Location

NTS 52F/10NE

Listed under SOAPSTONE

EAGLE LAKE QUARRY (GRACE MINE)

Classification

Past producer

Commodities

Soapstone, talc, chlorite

Location

NTS 52F/11NW

Listed under SOAPSTONE

TANTALITE

MEDICINE LAKE (FALCONBRIDGE) DEPOSIT

Classification

Minor occurrence

Commodities

Beryl, tourmaline, tantalite

Location

NTS 52F/13SW

Listed under BERYL

HARRISON (COBBLE LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Mica, tourmaline, (niobium-tantalum)

Location

NTS 52F/13SE

Listed under MICA

TOURMALINE

MEDICINE LAKE (FALCONBRIDGE) DEPOSIT

Classification

Minor occurrences

Commodities

Beryl, tourmaline, tantalite

Location

NTS 52F/13SW

Listed under BERYL

HARRISON (COBBLE LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Mica, Tourmaline, (niobium-tantalum)

Location

NTS 52F/13SE

Listed under MICA

ZEALAND TOWNSHIP DEPOSIT 1

Classification

Minor occurrence

Commodities

Beryl, tourmaline

Location

NTS 52F/15SE

Listed under BERYL

MAVIS LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Tourmaline

Location

NTS 52F/15SE

Brownridge Township

Mavis Lake area.

Latitude	Longitude
49°49'11"	92°38'01"
49°48'30"	92°39'42"

Remarks

The volcanic rocks in this area have been tourmalinized.

References

Satterly (1943, p.19, 46, 55)

KAIASHKOMIN LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Tourmaline

Location

NTS 52F/15SE

Zealand Township

About 1 mile east of Kaiashkomin Lake, at eastern edge of township.

Latitude	Longitude
49°49'44"	92°42'43"

Remarks

Quartz-tourmaline veins are common in the area.

References

Satterly (1943, p.19, 46, 55)

Map Reference

ODM Map P.1204 (Breaks, Bond, Harris et al. 1976)

NTS 52G IGNACE SHEET

ASBESTOS

GARGOYLE LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 52G/3SE

Eastern shore of Gargoyle Lake approximately 5 miles west of Hanniwell Township.

Latitude	Longitude
49°05'00"	91°04'00"

Remarks

The deposit is within a 'greenstone' belt of intermediate to mafic metavolcanics. Serpentinized dikes and sills of peridotite, light grey to brown in colour, weather dark green to black. They appear to be 100-200 feet wide and strike parallel to the trend of the area.

References

Woolverton (1960, p.27)

Map Reference

ODM Map P.964 (Sage et al. 1974)

FLUORITE

TEXMONT DEPOSIT

Classification

Minor occurrence

Commodities

Fluorite, pyrite

Location

NTS 52G/15NW

Seaton Island, Claim No. 462057.

Latitude	Longitude
49°56'35"	90°51'40"

Remarks

The occurrence is in a zone of felsic igneous and metamorphic rocks.

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Quest Lake, Technical Survey Files 63.2952, 2.382, and 2.180.

Map Reference

ODM Map P.761 (Trowell 1972)

WAHL DEPOSIT

Classification

Major occurrence

Commodities

Fluorite

Location

NTS 52G/15NW

Approximately 4 miles north of the west end of Post Lake.

Latitude	Longitude
49°57'25"	90°49'05"

Remarks

Carbonatization is prevalent in the area and it is believed that the introduction of fluorite is related to the carbonatization.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Sioux Lookout

File 52G/15NW.

Map Reference

ODM Map P.761 (Trowell 1972)

GARNET

GREEN POINT DEPOSIT

Classification

Minor occurrence

Commodities

Garnet

Location

NTS 52G/15NE

Approximately 3 miles northwest of Quest Lake.

Latitude	Longitude
49°58'00"	90°44'45"

Remarks

The occurrence is found within felsic igneous and metamorphic rocks.

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Sioux Lookout, Quest Lake, Technical Survey Files 63.2729 and 2.416.

Map Reference

ODM Map 2335 (Trowell 1976)

MATTAGAMI DEPOSIT

Classification

Minor occurrence

Commodities

Garnet, tourmaline, pyrite

Location

NTS 52G/15SW

2 miles southwest of Lyon Lake

Latitude	Longitude
49°51'50"	90°51'58"

Remarks

Diamond drilling showed porphyroblasts and bands of garnet in rhyolitic tuff. The occurrence is in a zone of mafic metavolcanics.

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Ball Lake Area, Technical Survey File 2.61, and Diamond Drilling Report 19.

Resident Geologist's Files, Sioux Lookout

File 52G/15SW.

Map Reference

ODMNA Map P.670 (Trowell 1971)

GRAPHITE

FACTOR TOWNSHIP DEPOSIT 1

Classification

Minor occurrence

Commodities

Graphite, pyrite, pyrrhotite, chalcopyrite

Location

NTS 52G/14NW

Factor Township

Latitude	Longitude
49°54'20"	91°23'50"
49°55'35"	91°28'05"
49°55'45"	91°29'28"
49°59'15"	91°22'35"

Remarks

The occurrences are in a zone of mafic metavolcanics. Mineralization consists of seams and disseminations of sulphides in a shear zone. Some graphite was observed. Rocks dip to the south with general strike N60W.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Sioux Lookout

File 52G/14NW, Wyatt Lake Report No. 276.

MAGNETITE

LITTLE AYLSWORTH LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, magnetite

Location

NTS 52G/9SW

Western shore of Little Aylsworth Lake.

Latitude	Longitude
49°31'50"	90°23'30"

Map Reference

ODM Map P.963 (Sage et al. 1974)

MUSCOVITE

TEXMONT-STURDY DEPOSIT

Classification

Minor occurrence

Commodities

Muscovite

Location

NTS 52G/15NW

Central part of Sturgeon Lake on Seaton Island

Latitude	Longitude
49°56'50"	90°51'40"

Remarks

The occurrence is at the contact between felsic igneous and metamorphic rocks.

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Six Mile Lake Area, Technical Survey Files 2.382 and 2.180.

Resident Geologist's Files, Sioux Lookout

File 52G/15NW.

Map Reference

ODM Map P.761 (Trowell 1972)

PEAT

STEDMAN TOWNSHIP BOG

Classification

Major occurrence

Commodities

Peat

Location

NTS 52G/2SE

Stedman Township

East of the CNR line where it crosses the western boundary of the township.

Latitude	Longitude
49°05'00"	90°41'05"

Remarks

The deposit is large and irregularly shaped. The depth of bog where sampled ranges from 1.5 to 6 m and averages more than 3.6 m. Four test holes partially delimited an area of about 55 ha of horticultural grade sphagnum, underlain by peat which rests on a clay bottom.

References

Graham (1979, p.69-72)

CATHCART TOWNSHIP BOG

Classification

Major occurrence

Commodities

Peat

Location

NTS 52G/6SW

Cathcart Township

Latitude	Longitude
49°15'30"	91°16'00"

Remarks

The peat deposit where sampled has a depth varying from 1.25 to 1.75 m. In the central part it measures 1300 m long and averages 180 m wide. The surface layer of sphagnum is 0.5 m thick and rests on a peat layer with 4.41-9.89 percent ash.

References

Graham (1979, p.80-82, 110-111, 124-125)

PYRITE

MATHIEU DEPOSIT

Classification

Major occurrence

Commodities

Pyrite

Location

NTS 52G/3SE

Approximately 1-1/2 miles east of Keewatin Lake.

Latitude	Longitude
49°02'55"	90°07'10"

Map Reference

ODM Map P.183 (Pye and Fenwick 1963)

ODM Map P.964 (Sage et al. 1974)

52G/5SE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 52G/5SE

Latitude	Longitude
49°19'45"	91°43'10"

Map Reference

ODM Map P.964 (Sage et al 1974)

LITTLE AYLSWORTH LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, magnetite

Location

NTS 52G/9SW

Listed under MAGNETITE

52G/13NW DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite

Location

NTS 52G/13NW

Latitude	Longitude
49°59'35"	91°47'35"

Map Reference

OGS Map 2442 (Breaks 1980)

FACTOR TOWNSHIP DEPOSIT 1

Classification

Minor occurrences

Commodities

Graphite, pyrite, pyrrhotite, chalcopyrite

Location

NTS 52G/14NW

Listed under GRAPHITE

FACTOR TOWNSHIP DEPOSIT 2

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite, sphalerite

Location

NTS 52G/14NW

Factor Township

Latitude	Longitude
49°54'15"	91°29'20"
49°53'35"	91°26'20"
49°53'50"	91°28'00"
49°55'00"	91°24'20"

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Sioux Lookout

File 52G/14NW.

52G/14NE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite

Location

NTS 52G/14NE

Latitude	Longitude
49°56'10"	91°06'00"
49°58'35"	91°00'50"
49°54'10"	91°02'40"
49°53'45"	91°04'25"
49°53'30"	91°05'20"
49°55'50"	91°06'40"
49°55'30"	91°03'10"

Map Reference

ODM Map P.927 (King and Werry 1974a)

52G/14SE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite

Location

NTS 52G/14SE

Latitude	Longitude
49°49'00"	91°06'00"
49°51'15"	91°00'20"

Map Reference

OGS Map 2442 (Breaks 1980)

TEXMONT DEPOSIT

Classification

Minor occurrence

Commodities

Fluorite, pyrite

Location

NTS 52G/15NW

Listed under FLUORITE

52G/15NW DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite

Location

NTS 52G/15NW

Latitude	Longitude
49°57'50"	90°59'10"
49°57'50"	90°52'20"
49°56'20"	90°45'00"
49°58'40"	90°52'20"

Map Reference

ODM Map P.928 (King and Werry 1974b)

52G/15NE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite

Location

NTS 52G/15NE

Latitude	Longitude
49°55'35"	90°42'30"
49°58'30"	90°35'50"
49°53'30"	90°42'50"
49°53'50"	90°44'45"

Map Reference

OGS Map 2442 (Breaks 1980)

MATTAGAMI DEPOSIT

Classification

Minor occurrence

Commodities

Garnet, tourmaline, pyrite

Location

NTS 52G/15SW

Listed under GARNET

STONE

BUTLER QUARRIES

Classification

Past producer

Commodities

Stone

Location

NTS 52G/5NW

Bradshaw Township

Latitude	Longitude
49°27'17"	91°46'52"
49°27'50"	91°48'07"
49°27'34"	91°50'12"

Remarks

The rock, used as a building stone, is white, massive and medium-grained; the sheeting is horizontal, somewhat tapering and thin. Patches of pegmatite are found in the area of these quarries

References

Hewitt (1964b, p.43-44)

CPR QUARRY

Classification

Past producer

Commodities

Stone

Location

NTS 52G/5NE

Ignace Township

Latitude	Longitude
49°25'32"	91°41'15"

Remarks

Outcrops of Early Precambrian granite protrude from a predominantly sandy terrain. The granite is structurally massive and weathers grey. It is composed of white feldspar, black biotite and yellow to amber quartz. The rock was quarried for use as a building stone.

References

Hewitt (1964b, p.42-43)

BONHEUR QUARRY

Classification

Past producer

Commodities

Stone

Location

NTS 52G/6SW

Burk Township

Latitude	Longitude
49°18'15"	91°19'39"

Remarks

The grey granite, quarried for use as a building stone, is structurally massive. It is made up of white feldspar, pale yellow to amber quartz and black biotite.

References

Hewitt (1964b, p.42)

WATCOMB QUARRY

Classification

Producer

Commodities

Stone

Location

NTS 52G/14SW

East of Slaght Township near Grassy River Crossing.

Latitude	Longitude
49°50'18"	91°19'56"

Remarks

The quarry is in a mafic rock described as medium to coarse-grained amphibolite and classified as mafic metavolcanic. Structurally it is massive.

References

Trowell (1970, p.5-11)

TOURMALINE

MATTAGAMI DEPOSIT

Classification

Minor occurrence

Commodities

Garnet, tourmaline, pyrite

Location

NTS 52G/15SW

Listed under GARNET

NTS 52H NIPIGON SHEET

ASBESTOS

BISH BAY - WEST BAY DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 52H/9NE

Dorothea Township

Latitude	Longitude
49°41'45"	88°06'05"

Remarks

In a zone 20 feet long, asbestos occurs along fractures in a serpentinized peridotite dike. The fibres range up to 5 inches long and are soft and flexible.

References

Mackasey (1975, p.38)

Map Reference

ODM Map P.479 (Mackasey 1968)

BERYL

MNW DEPOSIT

Classification

Minor occurrence

Commodities

Lithium, beryllium, cesium

Location

NTS 52H/1NE

1.5 miles west of Cosgrave Lake.

Latitude	Longitude
49°13'55"	88°00'40"

Remarks

The occurrence is found in massive granite, strikes north and dips 75-80W. It has been traced intermittently for 1,400 feet and ranges up to 45 feet in width.

References

Pye (1965, p.84-86, 28-35).

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Thunder Bay

Georgia Lake Area. Consolidated Mining and Smelting Company Report.

Map Reference

ODM Map 2232 (Carter et al. 1973)

ODM Map 2310 (MNR 1974)

SWANSON DEPOSIT

Classification

Minor occurrence

Commodities

Beryllium

Location

NTS 52H/1NE

South of Jackfish River.

Latitude	Longitude
49°13'20"	88°01'03"

Remarks

The deposit occurs in metasediments, striking N60E and dipping vertically to steeply northwest. It ranges up to 35 feet wide and is exposed for 40 feet. A 225 pound channel sample contained 2.58 percent beryllium.

References

Pye (1965, p.47,103)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Thunder Bay

Georgia Lake Area. Goldale Mines Limited Report.

Map Reference

ODM Map 2232 (Carter et al. 1973)

ODM Map 2310 (MNR 1974)

TACKLE LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Beryl

Location

NTS 52H/4SE

Northwest of Tackle Lake.

Latitude	Longitude
49°00'00"	89°36'35"

Remarks

The country rock in the area is Early Precambrian metasediments. The occurrence is in greywacke.

References

Kaye (1969, p.25)

CESIUM

MNW DEPOSIT

Classification

Minor occurrence

Commodities

Lithium, beryllium, cesium

Location

NTS 52H/1NE

Listed under BERYL

CHROMIUM

CHROME LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Chromium

Location

NTS 52H/13NE

Approximately 30 miles southwest of Armstrong.

Latitude	Longitude
49°58'40"	89°31'05"
49°58'45"	89°30'55"

Remarks

The occurrences are serpentine lenses with small chromite grains. The weathered surface of the serpentine is generally black or rusty in colour. Chemical analyses showed a variation between 27 and 34 percent Cr_2O_3.

References

Graham (1931, p.54-59)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Thunder Bay

File NTS 52H/13NE

Map Reference

ODM Map 2169 (Davies et al. 1970)

PUDDY LAKE PROSPECT

Classification

Major occurrence

Commodities

Chromium, iridium, cobalt

Location

NTS 52H/13NE

30 miles southwest of Armstrong.

Latitude	Longitude
49°58'05"	89°32'10"
49°57'55"	89°33'32"

Remarks

Puddy Lake serpentinite is an ultramafic lens-shaped stock which varies in width from a few feet to 1/2 mile. It has been traced for lengths up to 6 miles.

References

Graham (1931, p.54-56)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Thunder Bay

Commercial Nickel Mines Ltd., NTS 52H/13NE.

Map Reference

ODM Map 2169 (Davies et al. 1970)

CHROMIUM MINING AND SMELTING DEPOSIT

Classification

Minor occurrences

Commodities

Chromium

Location

NTS 52H/14NW

Approximately 30 miles southwest of Armstrong.

Latitude	Longitude
49°58'22"	89°29'55"

Remarks

Chromite deposits lie along the north contact of the serpentine lens. They are disseminated or segregated in the serpentine. A 2,000 foot zone has been traced. In places, pocket accumulations with Cr_2O_3 content up to 17 percent were found.

References

Graham (1931, p.51-60)

Map Reference

ODM Map 2169 (Davies et al. 1970)

COBALT

PUDDY LAKE PROSPECT

Classification

Major occurrence

Commodities

Chromium, iridium, cobalt

Location

NTS 52H/13NE

Listed under CHROMIUM

HEMATITE

STURGEON ESCARPMENT DEPOSIT

Classification

Minor occurrence

Commodities

Hematite

Location

NTS 52H/7SE

Southern end of Black Sturgeon Lake.

Latitude	Longitude
49°16'50"	88°38'50"

Remarks

Narrow lenses of specular hematite which seldom exceed 3 feet in length and 1 inch in thickness occur in Keewatin-type (Early Precambrian) mafic metavolcanics.

References

Coates (1972, p.32)

Map Reference

ODM Map 2232 (Carter et al. 1973)

IRIDIUM

PUDDY LAKE PROSPECT

Classification

Major occurrence

Commodities

Chromium, iridium, cobalt

Location

NTS 52H/13NE

Listed under COBALT

LIME

GRESKY (FOSSIL LAKE GROUP) DEPOSIT

Classification

Minor occurrence

Commodities

Lime

Location

NTS 52H/2SW

3 miles west of the south end of Sturge Lake.

Latitude	Longitude
49°06'15"	88°55'25"

Remarks

Flat-lying limestone beds are exposed intermittently for 1/2 mile. The exposed minimum thickness of the beds is 3 to 4 feet. They are reported to contain 93 percent $CaCO_3$ by weight.

References

Coates (1972, p.31)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Thunder Bay

Alex Gresky - Black Sturgeon Area

Map Reference

ODM Map P.462 (Coates 1968b)

GRESKY (BLUEJAY LAKE GROUP) DEPOSIT

Classification

Minor occurrence

Commodities

Lime

Location

NTS 52H/3SE

Latitude	Longitude
49°03'25"	89°04'55"

Remarks

The outcrop has an east-west length of 1-1/4 miles and a width of 3/4 mile. It encloses an area of 600 acres. Flat-lying limestone occurs in layers with minimum thickness of 5 to 6 feet, and is reported to contain 98 percent $CaCO_3$.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Thunder Bay

Alex Gresky - Black Sturgeon Area.

LIMONITE

KENI LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Limonite gossan

Location

NTS 52H/4SE

North of Keni Lake.

Latitude	Longitude
49°04'52"	89°31'05"

Remarks

Thick rusty showings of limonite are overlain by gossan, which is believed to be associated with magnetite chert. Grab samples show trace quantities of gold and silver.

References

Kaye (1969, p.8.24)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Thunder Bay

File 52H/4NE.

Map Reference

ODM Map P.339 (Kaye 1966a)

LITHIUM

MNW DEPOSIT

Classification

Minor occurrence

Commodities

Lithium, beryllium, cesium

Location

NTS 52H/1NE

Listed under BERYL

CARAL DEPOSIT

Classification

Minor occurrences

Commodities

Lithium (spodumene)

Location

NTS 52H/8NE

Just west of Piper Lake, 2 miles north-northeast of Postagoni Lake.

Latitude	Longitude
49°26'27"	88°00'30"

Remarks

Spodumene granite pegmatites, grading 1.03-1.14 percent Li_2O, are found here. The pematites vary in attitude from steeply dipping to gently dipping. Accessory minerals are feldspars, muscovite, quartz and beryl.

References

Hewitt (1967a, p.48)

Pye (1965, p.65-66)

Map Reference

ODM Map 2232 (Carter et al. 1973)

CONWAY DEPOSIT

Classification

Minor occurrences

Commodities

Lithium (spodumene)

Location

NTS 52H/8NE

The occurrences are north-northeast of Postagoni Lake. The No. 1 Deposit is about 1/4 mile northeast of Piper Lake and 1/4 mile east of Little Postagoni River. Conway Deposit is exposed 1,000 feet north-northeast of the No. 1 Deposit, about 1,500 feet east of Little Postagoni River.

No. 1 Deposit

Latitude	Longitude
49°26'45"	88°00'12"

Conway Deposit

49°27'05"	88°00'05"

Remarks

Algoman spodumene-bearing pegmatite dikes cut Early Precambrian metasediments. The No. 1 Deposit is exposed in three outcrops over a distance of 115 feet with horizontal width ranging from 3 to 8.5 feet. The pegmatite is banded by conformable aplite veins and is made up of medium-grained potassic feldspar and fine-grained spodumene in a very fine-grained, granitoid matrix.

The Conway Deposit has a known length of 1,400 feet and thickness varying from 10 to 37 feet. The dike is largely made up of feldspars, spodumene and quartz with small amounts of mica and possibly tourmaline. Some beryllium is present and assays indicate 0.02-0.05 percent Be over core lengths of up to 12.5 feet.

References

Pye (1965, p.66-69)

Map Reference

ODM Map 2232 (Carter et al. 1973)

ODM Map P.92 (Pye 1961)

KENOGAMISIS DEPOSIT

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 52H/8NE

Kilkenny Township

Just west of eastern township boundary at northern part of Downey Lake.

Latitude	Longitude
49°26'00"	88°01'25"

Remarks

Spodumene granite pegmatites, grading 1.03-1.14 percent Li_2O, are found here. The pegmatites vary in attitude from steeply dipping to gently dipping. Accessory minerals are feldspars, muscovite, quartz and beryl.

References

Hewitt (1967a, p.48)

Pye (1965, p.77-78)

Map Reference

ODM Map 2232 (Carter et al. 1973)

McVITTIE DEPOSIT

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 52H/8NE

3000 feet east of the northern end of Postagoni Lake, along north shore of Dive Lake.

Latitude	Longitude
49°24'25"	88°01'25"

Remarks

Spodumene granite pegmatites, grading 1.03-1.14 percent Li_2O, are found here. The pegmatites vary in attitude from steeply dipping to gently dipping. Accessory minerals are feldspars, muscovite, quartz and beryl.

References

Hewitt (1967a, p.48)

Pye (1965, p.87-89)

Map Reference

ODM Map 2232 (Carter et al. 1973)

NAMA DEPOSIT

Classification

Minor occurrences

Commodities

Lithium (spodumene)

Location

NTS 52H/8NE

Kilkenny Township

Latitude	Longitude
49°26'45"	88°02'30"
49°26'20"	88°02'50"
49°26'37"	88°01'40"
49°26'20"	88°01'28"
49°26'25"	88°01'31"
49°26'40"	88°00'56"
49°26'26"	88°02'20"
49°26'00"	88°03'00"

Remarks

Lithium occurs in spodumene pegmatites which are in metavolcanics and metasediments. The pegmatites vary in attitude from steeply dipping to gently dipping. A 503-foot shaft was sunk and diamond drilling indicated 4,292,332 tons of 1.06 percent Li_2O to 1,000 feet in depth.

References

Hewitt (1967, p.47-51)

Pye (1965, p.72,79,89,105, 26,91,93,59,60)

Map Reference

ODM Map 2310 (MNR 1974)

LUN-ECHO DEPOSIT

Classification

Minor occurrences

Commodities

Lithium (spodumene)

Location

NTS 52H/8SW

Approximately 3/4 mile northeast of Pine Portage

Latitude	Longitude
49°19'45"	88°16'20"
49°19'35"	88°16'55"

Remarks

Spodumene pegmatite dikes in metasediments are underlain by diabase which alters the spodumene. Channel samples indicated deposits to average from 1.98 to 4.23 percent Li_2O. Accessory minerals are feldspars, quartz, muscovite and columbite.

References

Hewitt (1967a, p.47-51)

Pye (1965, p.80-83)

Map Reference

ODM Map 2232 (Carter et al. 1973)

MAGNETITE

TERRITORY DEPOSIT

Classification

Minor occurrence

Commodities

Titaniferous magnetite

Location

NTS 52H/7NW

North shore of Black Sturgeon Lake.

Latitude	Longitude
49°25'15"	88°55'50"

Map Reference

ODM Map 2232 (Carter et al. 1973)

ODMNA Map 2233 (Coates 1971)

WEST SHORE DEPOSIT

Classification

Minor occurrence

Commodities

Titaniferous magnetite

Location

NTS 52H/7SW

Southwest shore of Black Sturgeon Lake.

Latitude	Longitude
49°19'28"	88°53'08"

Map Reference

ODM Map 2232 (Carter et al. 1973)

ODMNA Map 2233 (Coates 1971)

MARBLE

LUNDMARK DEPOSIT

Classification

Minor occurrence

Commodities

Marble

Location

NTS 52H/3SE

Approximately 2-1/2 miles west of Leckie Lake.

Latitude	Longitude
49°02'57"	89°01'58"

Remarks

Limestone of the Sibley Group in this area is suitable for ornamental building stone.

References

Tanton (1931a, p.199)

MARL

GRESKY (SHILLABEER LAKE GROUP) DEPOSIT

Classification

Minor occurrence

Commodities

Marl

Location

NTS 52H/2SE

Cockeram Township

Latitude	Longitude
49°04'25"	88°39'45"

Remarks

Auger holes indicated minimum average thickness of the deposit is 20 feet. Fragments of the alga Chara are plentiful throughout. Beds may occur over a distance of 5 miles and exceed 1/2 mile in width. It has been estimated that the deposit would yield a minimum of 5 million tons.

References

Coates (1972, p.34-36)

Guillet (1969, p.108-110)

Map Reference

ODM Map 2232 (Carter et al. 1973)

PYRITE

PHELPS DODGE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite

Location

NTS 52H/5SW

Approximately 65 miles northwest of Thunder Bay and 12-14 miles west-northwest of Lac des Isles

Latitude	Longitude
49°16'45"	89°55'40"
49°16'05"	89°57'00"
49°15'06"	89°55'50"
49°15'20"	89°55'20"
49°16'40"	89°53'50"
49°16'55"	89°53'35"
49°16'45"	89°51'30"

Map Reference

ODM Map P.380 (Kaye 1966b)

HOPKINS DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite

Location

NTS 52H/9NE

Dorothea Township

Latitude	Longitude
49°40'20"	88°04'30"

Map Reference

ODM Map P.479 (Mackasey 1968)

BISH BAY DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite

Location

NTS 52H/9NE

Dorothea Township

Latitude	Longitude
49°41'25"	88°05'55"

Map Reference

ODM Map P.479 (Mackasey 1968)

TYSON DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, gold

Location

NTS 52H/9NE

Dorothea Township

Latitude	Longitude
49°41'30"	88°02'40"

Map Reference

ODM Map 2294 (Mackasey 1974)

STONE

LAWRENCE QUARRY

Classification

Minor occurrence

Commodities

Stone (marble)

Location

NTS 52H/8NW

On Cooke Point, south shore of Lake Nipigon.

Latitude	Longitude
49°27'25"	88°15'25"

Remarks

Gently folded, thin-bedded dolomitic limestone is exposed at the base of a diabase sheet for about a mile along the lakeshore. Samples indicated that stone was acceptable as regards to colour, texture and weathering properties.

References

Hewitt (1964a, p.84-85)

NTS 52I ARMSTRONG SHEET

BERYL

NORTH AND SOUTH AUBRY DEPOSITS

Classification

Major occurrences

Commodities

Lithium, beryllium

Location

NTS 52I/8NW

About 2-1/2 miles west of Seymour Lake.

Latitude	Longitude
50°24'35"	88°26'50"
50°24'10"	88°26'55"

Remarks

Two spodumene-bearing pegmatite bodies intrude schistose amphibolite. The deposits are exposed over a length of 400-700 feet, with spodumene content varying from 10 to 30 percent. The BeO content is low.

References

Pye (1968, p.29-39, 47-49)

Map Reference

ODM Map P.267 (Pye and Harris 1965)

LINKLATER (SAN ANTONIO) DEPOSIT

Classification

Major occurrence

Commodities

Tin, beryllium, cassiterite

Location

NTS 52I/10SW

20 miles northeast of Armstrong, at southeastern end of Linklater Lake.

Latitude	Longitude
50°33'15"	88°45'40"

Remarks

The deposit occurs at or near the contact of acidic granitic rocks. The cassiterite stringers are in narrow dikes that average 6 inches wide and 30 feet long. These stringers have been injected along the bedding planes of the quartzite and vary from 0.4 to 2.5 percent cassiterite.

References

Chisholm (1948, p.1-6)

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Linklater Lake, Latitude 50°30', Longitude 88°45', District Thunder Bay.

Resident Geologist's Files, Thunder Bay

Canada Tin Limited (52I/10SW).

Map Reference

ODM Map P.267 (Pye and Harris 1965)

SAN ANTONIO DEPOSIT

Classification

Minor occurrences

Commodities

Beryl

Location

NTS 52I/10SW

20 miles northeast of Armstrong, at southeast end of Linklater Lake.

Latitude	Longitude
50°33'35"	88°46'50"
50°33'22"	88°46'40"

Remarks

A pegmatite dike with trace amounts of tin strikes N70W and dips 75S. The beryl crystals are from 1/4 to 1 inch long and are irregularly distributed throughout the dike.

References

Chisholm (1948, p.5)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Thunder Bay

Canada Tin Limited (52I/10SW).

Map Reference

ODM Map P.267 (Pye and Harris 1965)

GRAPHITE

ARRIL LAKE (SOUTH) DEPOSIT

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 52I/13SE

South shore of Arril Lake.

Latitude	Longitude
50°50'20"	89°33'10"

Remarks

Drill holes in Early Precambrian metasediments in the area showed minor graphite mineralization. Sulphides are associated with the graphite.

References

Pye (1968, p.20-21, 60-62)

Map Reference

ODM Map P.962 (Sage et al. 1974)

ARRIL LAKE (NORTH) DEPOSIT

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 52I/14NW

North shore of Arril Lake.

Latitude	Longitude
50°52'35"	89°29'40"

Remarks

Drill holes in Early Precambrian metasediments in the area showed minor graphite mineralization. Sulphides are associated with the graphite.

References

Pye (1968, p.20,21,60-62)

Map Reference

ODM Map P.962 (Sage et al. 1974)

HEMATITE

52I/6SE DEPOSIT

Classification

Minor occurrences

Commodities

Hematite

Location

NTS 52I/6SE

Latitude	Longitude
50°18'17"	89°09'55"
50°22'18"	89°10'29"
50°21'54"	89°09'39"
50°18'31"	89°00'25"

Remarks

Layered rock with sharply defined beds is indicative of these deposits. The layers are up to 15 inches thick and are quite massive.

References

Pye (1968, p.36,29,30,26)

Map Reference

ODM Map P.962 (Sage et al. 1974)

52I/7SW DEPOSIT

Classification

Minor occurrence

Commodities

Hematite

Location

NTS 52I/7SW

Approximately 4 miles due east of the Town of Armstrong.

Latitude	Longitude
50°18'06"	88°57'32"

Remarks

The occurrence consists of layered rock with sharply defined beds. The layers are up to 15 inches thick.

References

Pye (1968, p.26,29,30,36)

Map Reference

ODM Map P.962 (Sage et al. 1974)

LITHIUM

CHAPPAIS LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 52I/8NW

Southeast of a small pond which is about 1-1/2 miles east of the south end of Chappais Lake.

Latitude	Longitude
50°26'25"	88°20'30"

Remarks

A lithium pegmatite dike cuts granite gneiss, striking east and dipping 60°S. The dike is exposed in one outcrop 60 feet long and up to 30 feet wide.

References

Pye (1968, p.29-39,50-59)

Map Reference

ODM Map P.267 (Pye and Harris 1965)

ZIGZAG LAKE (DEMPSTER) DEPOSIT

Classification

Minor occurrences

Commodities

Lithium (spodumene)

Location

NTS 52I/8NW

Southeast of Crescent Lake in the vicinity of Zigzag Lake.

Latitude	Longitude
50°26'30"	88°20'00"
50°26'45"	88°19'30"
50°26'40"	88°19'00"
50°27'15"	88°18'20"
50°27'50"	88°16'20"

Remarks

Lithium occurs in tabular-shaped or lenticular pegmatite bodies ranging from 400 to 1,500 feet in length. They are made up essentially of feldspar, quartz, spodumene and muscovite. Spodumene may make up as much as 30 percent of some of the deposits.

References

Pye (1968, p.29-39,50-59)

Map Reference

ODM Map P.267 (Pye and Harris 1965)

DESPARD DEPOSIT

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 52I/8NE

Northeast of North Lamaune Lake.

Latitude	Longitude
50°25'40"	88°05'40"

Remarks

The Despard lithium pegmatite is massive and occurs in metavolcanics. It has a central spodumene-rich section enclosed in wall zones of relatively fine-grained material with a low spodumene content.

References

Pye (1968, p.29-39,50-53)

Map Reference

ODM Map P.267 (Pye and Harris 1965)

FALCON LAKE (MOTSEN GROUP) DEPOSIT

Classification

Major occurrences

Commodities

Lithium (spodumene)

Location

NTS 52I/8NE

West of Falcon Lake.

Latitude	Longitude
50°28'30"	88°09'55"
50°28'25"	88°09'05"
50°28'25"	88°07'50"
50°28'15"	88°07'00"

Remarks

These lithium pegmatite deposits occur in metavolcanics. The spodumene varies from 5 to 20 percent and is pale green in colour. The accessory minerals may be black tourmaline, apatite, muscovite and feldspar.

References

Pye (1968, p.29-39,53-56)

Map Reference

ODM Map P.267 (Pye and Harris 1965)

NORTH AND SOUTH AUBRY DEPOSITS

Classification

Major occurrences

Commodities

Lithium, beryllium

Location

NTS 52I/8NW

Listed under BERYL

SEYMOUR LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Lithium

Location

NTS 52I/8NW

About 1-1/2 miles west of Seymour Lake.

Latitude	Longitude
50°24'40"	88°26'05"

Remarks

The deposit consists of a north-trending dike of spodumene-bearing pegmatite which is exposed along its strike for 300 feet. The Li_2O content is very low.

References

Pye (1968, p.29-39,53)

Map Reference

ODM Map P.267 (Pye and Harris 1965)

PYRITE

BOILING SAND RIVER DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 51I/6NW

Approximately 3/4 mile west of Boiling Sand River.

Latitude	Longitude
50°24'30"	89°28'30"

Map Reference

ODM Map P.962 (Sage et al. 1974)

52I/6NE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite

Location

NTS 52I/6NE

Latitude	Longitude
50°28'50"	89°00'05"
50°29'20"	89°11'10"

Map Reference

ODM Map P.962 (Sage et al. 1974)

CAMP AND KELLAR ISLAND DEPOSITS

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite

Location

NTS 52I/10SW

Camp showing is just west of Howie Lake and Kellar Island showing is at the southern end of Kellar Island, Caribou Lake.

Latitude	Longitude
50°34'15"	88°59'20"
50°31'35"	88°57'58"

Map Reference

ODM Map P.564 (Thurston et al. 1969)

GLENN DEPOSIT

Classification

Minor occurrence

Commodities

Copper, zinc, pyrite

Location

NTS 52I/10SW

The deposit is just north of the north end of Kellar Island, Caribou Lake, about 18 miles north of Armstrong.

Latitude	Longitude
50°33'50"	88°56'13"

Map Reference

ODM Map P.564 (Thurston et al. 1969)

LUN-ECHO DEPOSIT

Classification

Minor occurrence

Commodities

Copper, silver, gold, pyrrhotite, pyrite

Location

NTS 52I/10SW

South shore of Kellar Bay about 17 miles north of Armstrong.

Latitude	Longitude
50°32'10"	88°57'10"

Map Reference

ODM Map P.564 (Thurston et al. 1969)

D'ALTON LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 52I/10SW

Approximately 16 miles north of Armstrong, between the two northern arms of D'Alton Lake.

Latitude	Longitude
50°30'44"	88°54'27"

Map Reference

ODM Map P.564 (Thurston et al. 1969)

LEE LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite

Location

NTS 52I/10SE

Southwest shore of Lee Lake.

Latitude	Longitude
50°30'41"	88°34'44"

Map Reference

ODM Map P.564 (Thurston et al. 1969)

BERG RIVER DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite

Location

NTS 52I/11NW

The group of deposits is approximately 30-35 miles northwest of Armstrong, on both sides of Berg River.

Latitude	Longitude
50°39'50"	89°25'00"
50°41'00"	89°21'00"
50°41'50"	89°26'20"
50°41'55"	89°24'25"
50°42'45"	89°24'35"
50°44'11"	89°23'50"

Map Reference

ODM Map P.962 (Sage et al. 1974)

CARIBOU BAY DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 52I/11SW

The occurrence is on the west shore of Funger Lake, south of Caribou Bay.

Latitude	Longitude
50°31'57"	89°15'10"

Map Reference

ODM Map P.962 (Sage et al. 1974)

LONEBREAST BAY DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, (gossan, limonite)

Location

NTS 52I/11SW

On a small island in Lonebreast Bay, Smoothrock Lake.

Latitude	Longitude
50°37'00"	89°16'05"

Map Reference

ODM Map P.962 (Sage et al. 1974)

52I/11SW DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite

Location

NTS 52I/11SW

Latitude	Longitude
50°36'15"	89°28'20"
50°31'25"	89°15'04"
50°30'21"	89°17'45"
50°35'32"	89°26'30"

Map Reference

ODM Map P.962 (Sage et al. 1974)

FAYOLLE AND FLETCHER DEPOSITS

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite

Location

NTS 52I/11SE

The deposits are between Caribou and Campbell Lakes.

Latitude	Longitude
50°36'55"	89°00'20"
50°33'55"	89°00'18"

Map Reference

ODM Map P.564 (Thurston et al. 1969)

ROVE LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite

Location

NTS 52I/11SE

South shore of Rove Lake.

Latitude	Longitude
50°36'43"	89°09'57"

Map Reference

ODM Map P.962 (Sage et al. 1974)

52I/12NE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 52I/12NE

Latitude	Longitude
50°41'45"	89°43'57"

Map Reference

ODM Map P.962 (Sage et al. 1974)

52I/12SE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, chalcopyrite

Location

NTS 52I/12SE

Latitude	Longitude
50°37'26"	89°32'03"
50°32'10"	89°31'02"
50°30'57"	89°31'02"

Map Reference

ODM Map P.962 (Sage et al. 1974)

52I/13NE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 52I/13NE

Latitude	Longitude
50°55'20"	89°32'10"

Map Reference

ODM Map P.962 (Sage et al. 1974)

TIN

LINKLATER (SAN ANTONIO) DEPOSIT

Classification

Major occurrence

Commodities

Tin, beryllium, cassiterite

Location

NTS 52I/10SW

Listed under BERYL

NTS 52J SIOUX LOOKOUT SHEET

BERYL

EAST PASHKOKOGAN LAKE DEPOSIT

Classification

Major occurrence

Commodities

Lithium (beryllium, cesium, rubidium)

Location

NTS 52J/16NE

Southeastern part of East Pashkokogan Lake

Latitude	Longitude
50°57'26"	90°13'58"

Remarks

A spodumene-bearing zone comprising medium to coarse-grained granite pegmatite occurs in felsic volcanic breccia. Assay results from a chip sample across its 50-foot width showed 1.25 percent Li_2O. Associated minerals are feldspar, muscovite, quartz, tourmaline and trace amounts of beryllium, cesium and rubidium.

References

Goodwin (1965, p.54-55)

Map Reference

ODM Map P.962 (Sage et al. 1974)

CESIUM

EAST PASHKOKOGAN LAKE DEPOSIT

Classification

Major occurrence

Commodities

Lithium (beryllium, cesium, rubidium)

Location

NTS 52J/16NE

Listed under BERYL

GRAPHITE

STURGEX (BECKINGTON LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, graphite, chalcopyrite

Location

NTS 52J/1NW

Beckington Lake Area, 2-1/2 miles northwest of Swiss Lake.

Latitude	Longitude
50°09'45"	90°30'00"

Remarks

The deposit is found in a zone of mafic metavolcanics. The rock is Early Precambrian and trends in a west-northwest direction.

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Sioux Lookout, Beckington Lake, Technical Survey File 2.252.

Map Reference

ODM Map P.962 (Sage et al. 1974)

STURGEX (FOG LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, pyrrhotite, pyrite

Location

NTS 52J/1NW

Fog Lake Area, 2-1/2 miles northwest of Swiss Lake.

Latitude	Longitude
50°08'55"	90°29'50"

Remarks

The deposit is found in a zone of mafic metavolcanics. The rock is Early Precambrian and trends in a west-northwest direction.

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Sioux Lookout, Fog Lake, Diamond Drilling Report No. 12.

Map Reference

ODM Map P.962 (Sage et al. 1974)

SCHIST LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, graphite

Location

NTS 52J/6SE

Northeast shore of Schist Lake.

Latitude	Longitude
50°21'54"	91°11'06"

Remarks

The deposit occurs in a zone of mafic metavolcanics.

References

Breaks, Bond, Stone, and Desnoyers (1979b)

LITHIUM

CONSOLIDATED MORRISON DEPOSIT

Classification

Minor occurrence

Commodities

Lithium

Location

NTS 52J/13NE

Approximately 2-1/2 miles northwest of Root Lake, just south of Roadhouse River.

Latitude	Longitude
50°56'05"	91°41'40"

Remarks

A spodumene-bearing pegmatite dike, traced for 100 feet and averaging widths up to about 30 feet, intrudes Early Precambrian metavolcanics. Drill holes indicated 1.34 percent Li_2O over a width of 14.5 feet, 2.60 percent over 10.0 feet and 1.86 percent over 13.0 feet.

References

Hewitt (1967a, p.48)

Pye (1956, p.73-74)

McCOMBE DEPOSIT (CAPITAL LITHIUM MINES)

Classification

Minor occurrence

Commodities

Lithium

Location

NTS 52J/13NE

Approximately 3 miles northwest of Root Lake, just north of Roadhouse River.

Latitude	Longitude
50°56'20"	91°42'20"

Remarks

An Early Precambrian lithium-bearing pegmatite dike intrudes Early Precambrian mafic metavolcanics at this locality. A resource estimate was calculated at 2,297,000 tons of 1.3 percent Li_2O.

References

Hewitt (1967a, p.48)

Map Reference

ODM Map P.354 (Davies and Pryslak 1966a)

EAST PASHKOKOGAN LAKE DEPOSIT

Classification

Major occurrence

Commodities

Lithium (beryllium, cesium, rubidium)

Location

NTS 52J/16NE

Listed under BERYL

MAGNETITE

ABRAM LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Magnetite

Location

NTS 52J/4SW

Abram Lake about 4 miles south of Sioux Lookout.

Latitude	Longitude
50°07'05"	91°55'30"
50°03'00"	91°56'45"
50°02'15"	91°59'00"

Map Reference

OGS Map P.2218 (Breaks, Bond, Stone and Desnoyers 1979b)

ODM Map P.421 (Johnston 1967)

BURY-HIGHSTONE LAKES DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, magnetite, pyrrhotite, copper, nickel

Location

NTS 52J/6NW

Bury and Highstone Lakes area.

Latitude	Longitude
50°26'00"	91°22'00"
50°23'25"	91°29'45"

Map Reference

OGS Map P.2217 (Breaks, Bond, Stone and Desnoyers 1979a)

NORANDA EXPLORATION DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 52J/6SE

North of Marchington River.

Latitude	Longitude
50°21'45"	91°07'10"

Map Reference

OGS Map P.2218 (Breaks, Bond, Stone and Desnoyers 1979b)

FALCONBRIDGE DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 52J/7NW

South arm of Armit Lake

Latitude	Longitude
50°26'45"	90°55'55"
50°25'10"	90°56'30"

Map Reference

ODM Map P.933 (Bond 1974)

HOUGH LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, magnetite, pyrrhotite

Location

NTS 52J/7NW

Western shore of Hough Lake.

Latitude	Longitude
50°22'30"	90°46'35"
50°22'40"	90°45'00"
50°22'33"	90°45'18"

Map Reference

OGS Map P.2218 (Breaks, Bond, Stone and Desnoyers 1979b)

ODM Map P.1093 (Palonen and Speed 1976)

PYRITE

STURGEX (BECKINGTON LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, graphite, chalcopyrite

Location

NTS 52J/1NW

Listed under GRAPHITE

STURGEX (FOG LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, pyrrhotite, pyrite

Location

NTS 52J/1NW

Listed under GRAPHITE

DRAYTON TOWNSHIP DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite

Location

NTS 52J/4SW

Drayton Township

Latitude	Longitude
50°01'20"	91°52'25"
50°04'30"	91°55'40"

Map Reference

ODM Map P.421 (Johnston 1967)

52J/5NE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite

Location

NTS 52J/5NE

Latitude	Longitude
50°22'45"	91°36'25"

Map Reference

OGS Map P.2217 (Breaks, Bond, Stone, and Desnoyers 1979a)

52J/6NW DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite

Location

NTS 52J/6NW

Latitude	Longitude
50°23'10"	91°28'00"
50°24'10"	91°26'00"
50°24'20"	91°24'00"
50°25'50"	91°20'20"
50°25'15"	91°18'20"
50°26'25"	91°17'20"
50°25'50"	91°16'30"

Map Reference

OGS Map P.2217 (Breaks, Bond, Stone, and Desnoyers 1979a)

BURY-HIGHSTONE LAKES DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, magnetite, pyrrhotite, copper, nickel

Location

NTS 52J/6NW .

Listed under MAGNETITE

SCHIST LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, graphite

Location

NTS 52J/6SE

Listed under GRAPHITE

HOUGH LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, magnetite, pyrrhotite

Location

NTS 52J/7NW

Listed under MAGNETITE

STILLAR BAY DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, chalcopyrite

Location

NTS 52J/8NW

Stillar Bay, Savant Lake.

Latitude	Longitude
50°24'35"	90°29'40"

Map Reference

ODM Map P.962 (Sage et al. 1974)

TOURMALINE

SMYE TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Tourmaline

Location

NTS 52J/8SW

Smye Township

Latitude	Longitude
50°20'45"	90°21'45"

Remarks

Tourmaline is found in veins and forms bands and scattered crystals in the quartz.

References

Moore (1929, p.71-73)

Map Reference

ODM Map P.805 (Bond 1973)

ODM Map P.962 (Sage et al. 1974)

APATITE

SANDY CREEK DEPOSIT

Classification

Minor occurrence

Commodities

Beryl, tourmaline, apatite

Location

NTS 52K/11NW

Approximately 29 miles southeast of Red Lake, between Highway 105 and CNR line about 2 miles south of Bruce Lake.

Latitude	Longitude
50°42'58"	93°20'00"

Remarks

The occurrence is found in an area of granitic rocks. Beryllium crystals 2 inches long occur in a 12 foot wide pegmatite dike; the dike is exposed for 180 feet.

References

Breaks, Bond, Harris, and Westerman (1975, p.32)

Hewitt (1967a, p.37-38)

Map Reference

ODM Map P.1199 (Breaks, Bond, Desnoyers et al. 1976)

BERYL

SANDY CREEK DEPOSIT

Classification

Minor occurrence

Commodities

Beryl, tourmaline, apatite

Location

NTS 52K/11NW

Listed under APATITE

GARNET

WEBSTER DEPOSIT

Classification

Minor occurrence

Commodities

Garnet

Location

NTS 52K/1SW

Just south of the CNR line about 3 miles east of Webster.

Latitude	Longitude
50°05'16"	92°16'26"

Remarks

Weakly foliated granitic rocks are present in the area, ranging in composition from trondhjemite to quartz monzonite. These contain garnet, muscovite and apatite.

References

Breaks, Bond, Harris, and Westerman (1975, p.30-31)

LOST LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Garnet, silica

Location

NTS 52K/1SE

Lost Lake area.

Latitude	Longitude
50°04'28"	92°09'02"
50°06'45"	92°10'53"
50°06'45"	92°12'20"

Remarks

Garnet occurs in intrusive homogeneous diatexite. These diatexites intrude metasediments of the Wabigoon Subprovince.

References

Breaks, Bond, Harris, and Westerman (1975, p.30-31)

MAGNETITE

LOMOND TOWNSHIP

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 52 K/1SW

Lomond Township

Latitude	Longitude
50°01'37"	92°19'44"

Map Reference

ODM Map P.1204 (Breaks, Bond, Harris et al. 1976)

VERMILION-LOMOND DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, magnetite, pyrrhotite, zinc, lead

Location

NTS 52K/1SW

Vermilion Additional and Lomond Township.

Latitude	Longitude
50°01'37"	92°19'44"
50°03'55"	92°19'07"
50°04'52"	92°17'32"

Map Reference

ODM Map P.1204 (Breaks, Bond, Harris et al. 1976)

52K/1SE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, magnetite, pyrrhotite

Location

NTS 52K/1SE

Vermilion Additional, Drayton, Jordan, Vermilion Townships, I.R.28.

Latitude	Longitude
50°04'52"	92°01'26"
50°00'32"	92°00'49"
50°00'00"	92°01'14"
50°05'00"	92°04'31"
50°04'03"	92°09'02"
50°03'47"	92°09'52"
50°02'34"	92°08'01"
50°03'39"	92°12'57"
50°02'34"	92°11'30"
50°06'45"	92°09'52"
50°02'34"	92°11'06"
50°02'10"	92°14'35"

Map Reference

ODM Map P.1204 (Breaks, Bond, Harris et al. 1976)

PYRITE

VERMILION-LOMOND DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, magnetite, pyrrhotite, zinc, lead

Location

NTS 52K/1SW

Listed under MAGNETITE

52K/1SE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, magnetite, pyrrhotite

Location

NTS 52K/1SE

Listed under MAGNETITE

FREDART LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite

Location

NTS 52K/15NW

Fredart Lake Area

Latitude	Longitude
50°57'42"	92°59'55"
50°57'58"	92°52'36"

Map Reference

ODM Map P.1199 (Breaks, Bond, Desnoyers et al. 1976)

ODM Map P.406 (Davies and Pryslak 1967a)

ODM Map P.349 (Fenwick 1966b)

SILICA

LOST LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Garnet, silica

Location

NTS 52K/1SE

Listed under GARNET

TOURMALINE

SANDY CREEK DEPOSIT

Classification

Minor occurrence

Commodities

Beryl, tourmaline, apatite

Location

NTS 52K/11NW

Listed under APATITE

NTS 52L PART OF POINT DU BOIS SHEET

BERYL

GLEN ECHO DEPOSIT

Classification

Minor occurrence

Commodities

Beryl

Location

NTS 52L/7SE

North shore of English River at Separation Rapids.

Latitude	Longitude
50°15'55"	94°32'00"

Remarks

Beryl crystals occur in a large pegmatite dike. The dike cuts metavolcanics on the east shore of the English River.

References

Hewitt (1967a, p.37-38)

Wright (1932, p.127)

Map Reference

ODM Map P.1028 (Breaks, Bond, McWilliams et al. 1975)

CHROMIUM

WERNER LAKE PROSPECT

Classification

Major occurrence

Commodities

Chromium, copper, nickel, vanadium

Location

NTS 52L/7NW

Northeast of east end of Werner Lake, on north shore of Loons Nest Lake.

Latitude	Longitude
50°27'28"	94°49'52"

Remarks

Two mineralized peridotite bodies occur at this location. They are 47-50 feet wide and 147-160 feet long. The average composition of the bodies is 0.54 percent vanadium, 0.40 percent nickel, 1.76 percent copper, and 4.12 percent chromite.

References

Carlson (1958, p.27)

Shklanka (1969, p.171)

Map Reference

ODM Map 2310 (MNR 1974)

COBALT

EASTERN MINING AND SMELTING DEPOSIT

Classification

Minor occurrence

Commodities

Cobalt, nickel, copper

Location

NTS 52L/7NW

North of Werner Lake.

Latitude	Longitude
50°27'38"	94°54'25"

Remarks

Pod-shaped lenses of peridotite are located along the length of a gneissic band. These bodies are mineralized with sulphides.

References

Carlson (1958, p.22-24)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Kenora

Rexora Mining Corporation Limited Report, 52L/7NW O-1.

Map Reference

ODM Map 2175 (Ferguson et al. 1970)

WERNER LAKE MINE

Classification

Past producer

Commodities

Cobaltite, nickel, copper, silver

Location

NTS 52L/7NW

Northwest end of Werner Lake.

Latitude	Longitude
50°28'00"	94°58'10"

Remarks

The deposit occurs in an east-trending belt of interbanded paragneiss and pink granodiorite. Ore minerals are generally disseminated but form irregular lenses and pods of high grade mineralization. The average grade of cobalt is 2 percent and 143,386 tons of cobalt have been produced.

References

Carlson (1958, p.25)

Sergiades (1968, p.38)

Map Reference

ODM Map 2175 (Ferguson et al. 1970)

PYRITE

MINAKI MINE

Classification

Past producer

Commodities

Pyrite

Location

NTS 52L/2SE

6 miles northeast of Minaki.

Latitude	Longitude
50°04'00"	94°36'00"

Map Reference

ODM Map P.366 (Davies and Pryslak 1966b)

ODM Map 2175 (Ferguson et al. 1970)

MULCAHY TOWNSHIP DEPOSIT 1

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, copper, zinc

Location

NTS 52L/16NE

Mulcahy Township

Latitude	Longitude
50°59'53"	94°13'10"

Map Reference

ODM Map 2295 (Riley 1976)

MULCAHY TOWNSHIP DEPOSIT 2

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, copper, nickel

Location

NTS 52L/16NE

Mulcahy Township

Latitude	Longitude
50°59'50"	94°11'57"
50°59'26"	94°12'45"
50°59'05"	94°11'04"
50°58'31"	94°11'09"
50°57'29"	94°10'30"
50°57'09"	94°11'09"
50°56'55"	94°11'23"
50°59'20"	94°12'05"

Map Reference

ODM Map 2295 (Riley 1976)

THORIUM

TREELINED LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Thorium, uranium

Location

NTS 52L/8SW

Southwest of Treelined Lake.

Latitude	Longitude
50°17'42"	94°29'50"

Remarks

The occurrence is in massive to gneissic medium-grained quartz monzonite. The radioactivity is concentrated in the biotite bands and zones. These zones contain up to 80 percent fine biotite and some graphite.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Kenora

Treelined Lake uranium-thorium occurrence, 52L/8SW.

Map Reference

ODM Map P.1028 (Breaks, Bond, McWilliams et al. 1975)

NTS 52M PART OF CARROLL LAKE SHEET

ASBESTOS

BIRON BAY GOLD MINES DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 52M/1SW

Ball Township

18 miles west of Red Lake.

Latitude	Longitude
51°05'00"	94°16'00"

Remarks

Chrysotile asbestos is found as veinlets in massive serpentine rocks.

References

Bruce and Hawley (1928, p.56)

Map Reference

ODM Map 2265 (Riley 1975)

SPIERS DEPOSIT

Classification

Minor occurrences

Commodities

Asbestos

Location

NTS 52M/1SE

Ball Township

Approximately 18 miles west of Red Lake.

Latitude	Longitude
51°02'25"	94°12'03"
51°03'30"	94°13'40"
51°02'20"	94°11'58"

Remarks

The deposit is in an area of mafic metavolcanics which generally strike easterly and dip 65-75° north. The asbestos occurs as veinlets in the metavolcanics.

References

Bruce and Hawley (1928, p.56)

Map Reference

ODM Map 2265 (Riley 1975)

BALL TOWNSHIP DEPOSIT 1

Classification

Minor occurrences

Commodities

Asbestos

Location

NTS 52M/1SE

Ball Township

Latitude	Longitude
51°03'30"	94°13'40"
51°03'45"	94°14'20"
51°03'30"	94°11'25"
51°03'10"	94°12'45"
51°03'05"	94°12'30"
51°02'35"	94°12'50"
51°02'25"	94°13'15"
51°02'20"	94°13'01"
51°02'10"	94°13'48"
51°02'10"	94°13'52"

Remarks

Asbestos is found as veinlets in massive serpentine rocks in the 'greenstone' areas.

References

Bruce and Hawley (1928, p.56)

Map Reference

ODM Map 2265 (Riley 1975)

MAGNETITE

BALL TOWNSHIP DEPOSIT 2

Classification

Minor occurrences

Commodities

Magnetite

Location

NTS 52M/1SE

Ball Township

Latitude	Longitude
51°03'30"	94°12'35"
51°03'07"	94°11'20"
51°02'50"	94°11'50"

Map Reference

ODM Map 2265 (Riley 1975)

PYRITE

BALL TOWNSHIP DEPOSIT 3

Classification

Minor occurrences

Commodities

Pyrite, chalcopyrite, sphalerite, pyrrhotite, galena, nickel, molybdenum, gold

Location

NTS 52M/1SW

Ball Township

Latitude	Longitude
51°02'15"	94°15'20"
51°02'08"	94°15'15"
51°02'10"	94°15'05"
51°02'15"	94°15'30"
51°02'25"	94°15'30"
51°02'28"	94°15'30"
51°02'30"	94°16'05"
51°03'16"	94°16'30"
51°03'20"	94°15'45"
51°03'30"	94°15'45"
51°03'40"	94°16'15"
51°04'15"	94°15'30"
51°04'02"	94°15'30"
51°03'30"	94°15'15"
51°02'55"	94°16'15"
51°02'35"	94°15'43"

Map Reference

ODM Map 2265 (Riley 1975)

COCHENOUR EXPLORATIONS DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, sphalerite, chalcopyrite, galena, nickel

Location

NTS 52M/1SE

Ball Township

Latitude	Longitude
51°04'10"	94°10'12"

Map Reference

ODM Map 2265 (Riley 1975)

BALL TOWNSHIP DEPOSIT 4

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite

Location

NTS 52M/1SE

Ball Township

Latitude	Longitude
51°00'23"	94°10'55"
51°00'34"	94°11'40"
51°00'45"	94°11'15"
51°00'46"	94°11'10"
51°00'03"	94°12'05"
51°00'08"	94°12'07"
51°01'20"	94°13'30"
51°01'28"	94°13'25"
51°01'30"	94°13'32"
51°01'32"	94°14'15"
51°03'08"	94°13'30"
51°03'00"	94°13'30"

Map Reference

ODM Map 2265 (Riley 1975)

BALL TOWNSHIP DEPOSIT 5

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, copper, silver, zinc, chalcopyrite, sphalerite

Location

NTS 52M/1SE

Ball Township

Latitude	Longitude
51°00'03"	94°11'30"
51°00'05"	94°11'35"
51°00'10"	94°11'45"
51°00'30"	94°13'25"
51°00'40"	94°13'45"
51°00'45"	94°13'50"
51°01'08"	94°12'25"
51°03'40"	94°14'30"
51°03'35"	94°14'45"
51°03'30"	94°15'15"
51°03'30"	94°13'45"
51°02'15"	94°13'47"
51°02'05"	94°12'53"
51°02'10"	94°10'45"
51°01'28"	94°13'25"
51°04'20"	94°10'28"
51°01'00"	94°12'26"

Map Reference

ODM Map 2265 (Riley 1975)

NTS 52N TROUT LAKE SHEET

ASBESTOS

GOODALL TOWNSHIP DEPOSIT 1

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 52N/2NE

Goodall Township

Latitude	Longitude
51°14'20"	92°33'35"

Remarks

The deposit occurs in Early Precambrian mafic metavolcanics.

References

Bruce and Hawley (1928, p.11-12)

Map Reference

ODM Map P.763 (Pryslak 1972)

COBALT

SWAIN LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Cobalt, copper

Location

NTS 52N/7SE

Northeast shore of Swain Lake.

Latitude	Longitude
51°16'50"	92°36'10"

Remarks

The deposit is found in metavolcanics. Finely disseminated mineralization occurs along an east-west strike length of over 1/2 mile.

References

Shklanka (1969, p.176-177)

Map Reference

ODM Map 2175 (Ferguson et al. 1970)

MAGNETITE

CORLESS-SKINNER TOWNSHIPS DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite, magnetite

Location

NTS 52N/2NW

Corless and Skinner Townships

Latitude	Longitude
51°08'53"	92°54'30"
51°09'05"	92°54'38"
51°12'08"	92°47'15"
51°12'06"	92°47'30"
51°12'30"	92°47'20"
51°13'07"	92°47'05"
51°13'10"	92°47'05"
51°13'45"	92°48'15"
51°13'11"	92°48'00"

Map Reference

ODM Map P.763 (Pryslak 1972)

OGS Map P.1975 (Thurston and Jackson 1978)

SHABU LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, magnetite, chalcopyrite, sphalerite, molybdenum, copper, silver, galena

Location

NTS 52N/7SW

Shabu Lake area

Latitude	Longitude
51°17'40"	92°45'00"
51°21'15"	92°59'45"
51°20'30"	92°59'10"
51°19'01"	92°56'05"
51°19'01"	92°56'00"
51°18'30"	92°55'55"
51°18'45"	92°55'55"
51°19'05"	92°55'40"
51°19'30"	92°56'30"
51°19'45"	92°56'32"
51°19'55"	92°56'40"
51°15'15"	92°46'50"

Map Reference

OGS Map P.2119 (Panagapko and Gibson 1980)

ODM Map P.901 (Pryslak 1973)

HBOG DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 52N/7SE

Just west of southern end of Shabumeni Lake.

Latitude	Longitude
51°18'30"	92°42'30"

Map Reference

ODM Map P.901 (Pryslak 1973)

OGS Map P.1975 (Thurston and Jackson 1978)

NORTHWEST EXPLORERS DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, magnetite, tin, copper, zinc

Location

NTS 52N/7SE

55 miles northeast of Red Lake, at southern end of Shabumeni Lake.

Latitude	Longitude
51°17'30"	92°42'30"

Remarks

The deposit occurs in calcitic chlorite-sericite schist. Assays of a 10-foot core sample between 171 and 181 feet indicate 0.40 percent zinc, 0.05 percent copper, 0.10 ounce per ton silver and 0.005 ounce per ton gold.

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Shabumeni Lake Area, Technical Survey Files 2.226 and 63.2772.

Map Reference

ODM Map P.901 (Pryslak 1973)

PYRITE

CORLESS-SKINNER TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, chalcopyrite, magnetite

Location

NTS 52N/2NW

Listed under MAGNETITE

GOODALL TOWNSHIP DEPOSIT 2

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 52N/2NE

Goodall Township

Latitude	Longitude
51°14'03"	92°44'53"

Map Reference

ODM Map P.763 (Pryslak 1972)

CORLESS-KNOTT TOWNSHIPS DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite, sphalerite, copper, lead, silver

Location

NTS 52N/2SW

Corless and Knott Townships

Latitude	Longitude
51°03'30"	92°47'10"
51°04'10"	92°47'12"
51°01'52"	92°48'45"
51°03'50"	92°47'30"
51°03'58"	92°47'25"
51°05'30"	92°50'15"
51°06'18"	92°46'50"
51°06'23"	92°50'12"

Map Reference

OGS Map P.1975 (Thurston and Jackson 1978)

MITCHELL-EARNGEY TOWNSHIPS DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, copper, zinc

Location

NTS 52N/2SE

Mitchell and Earngey Townships

Latitude	Longitude
51°05'08"	92°41'00"
51°03'45"	92°44'55"
51°03'50"	92°44'55"
51°02'10"	92°38'02"
51°05'30"	92°37'30"

Map Reference

ODM Map P.1212 (Pryslak and Valliant 1976)

OGS Map P.1975 (Thurston and Jackson 1978)

SHABU LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, magnetite, chalcopyrite, sphalerite, molybdenum, copper, silver, galena

Location

NTS 52N/7SW

Listed under MAGNETITE

NORTHWEST EXPLORERS DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, magnetite, tin, copper, zinc

Location

NTS 52N/7SE

Listed under MAGNETITE

SWAIN LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite

Location

NTS 52N/7SE

North of Swain Lake.

Latitude	Longitude
51°15'18"	92°43'50"
51°15'03"	92°44'01"
51°16'05"	92°43'50"
51°16'45"	92°45'00"
51°17'50"	92°39'58"
51°18'03"	92°39'30"
51°18'33"	92°39'43"
51°18'19"	92°38'52"

Map Reference

ODM Map P.763 (Pryslak 1972)

TIN

SOUTH BAY MINE (SELCO MINING CORPORATION)

Classification

Producer

Commodities

Copper, zinc, silver, tin

Location

NTS 52N/2SE

Dent Township

Latitude	Longitude
51°06'45"	92°40'03"

Remarks

The deposit occurs in rhyolitic metavolcanics, which are folded into a northeasterly-trending syncline. The amount of ore is estimated to be 1 million tons and averages 16 percent zinc, 2.7 percent copper, about 3.7 ounces of silver per ton and a small percentage of tin as fine-grained cassiterite.

References

Mulligan (1975, p.101-102)

Map Reference

ODM Map P.901 (Pryslak 1973)

OGS Map P.1975 (Thurston and Jackson 1978)

NORTHWEST EXPLORERS DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, magnetite, tin, copper, zinc

NTS 52N TROUT LAKE SHEET

Location
NTS 52N/7SE
Listed under MAGNETITE

NTS 52O LAKE ST. JOSEPH SHEET

COBALT

NEW JERSEY ZINC EXPLORATION COMPANY DEPOSIT

Classification

Minor occurrence

Commodities

Copper, nickel, cobalt, lead, pyrite

Location

NTS 52O/11SW

Southeast shore of McVicar Lake.

Latitude	Longitude
51°33'45"	91°19'30"

Remarks

Mineralization occurs as disseminated sulphides associated with the coarse-grained phase of a metagabbro.

References

Shklanka (1969, p.178)

Map Reference

ODM Map 2218 (Sage et al. 1975)

FLUORITE

NORTH BAMAJI LAKE WEST DEPOSIT

Classification

Minor occurrence

Commodities

Copper, pyrite, molybdenum, fluorite

Location

NTS 52O/4NE

Western part of North Bamaji Lake.

Latitude	Longitude
51°09'05"	91°34'15"

Remarks

The deposit occurs as medium to coarse-grained quartz veinlets less than 10 inches in width. Grab samples contained 0.14 percent molybdenum, 0.10-0.20 percent purple fluorite and traces of bismuth.

References

Sage and Breaks (1976, p.309-319)

Map Reference

ODM Map 2218 (Sage et al. 1975)

GOETHITE

INITIATIVE EXPLORATIONS DEPOSIT

Classification

Minor occurrence

Commodities

Goethite, pyrite

Location

NTS 52O/12SE

Eastern shore of Bowen Lake.

Latitude	Longitude
51°34'45"	91°37'00"

Remarks

Mineralization occurs in an Early Precambrian iron formation.

References

Sage et al. (1975)

GRAPHITE

SELCO EXPLORATION DEPOSIT

Classification

Minor occurrences

Commodities

Pyrrhotite, pyrite, graphite

Location

NTS 52O/1SW

Approximately 31 miles south of Pickle Lake and 2 miles east of Riach Lake.

Latitude	Longitude
51°01'45"	90°19'45"
51°02'07"	90°20'25"
51°00'58"	90°20'57"

Remarks

The deposits occur in metavolcanics and metasediments. The zones are small and contain variable amounts of disseminated sulphides and magnetite.

References

Goodwin (1965, p.55)

Map Reference

ODM Map 2218 (Sage et al. 1975)

PASHKOKOGAN LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrrhotite, pyrite, graphite, chalcopyrite, magnetite, pentlandite

Location

NTS 52O/1SE

About 30 miles south of Pickle Lake, and just northeast of Pashkokogan Lake.

Latitude	Longitude
51°03'15"	90°06'15"
51°02'12"	90°12'45"
51°01'05"	90°14'00"
51°00'55"	90°14'58"
51°05'57"	90°01'35"
51°07'01"	90°03'45"
51°07'01"	90°01'35"

Remarks

Small zones of disseminated sulphides occur in the metavolcanics and metasediments in the area. Variable amounts of garnet, magnetite, and graphite were indicated by diamond drilling.

References

Goodwin (1965, p.55)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Caron Lake Area, Diamond Drilling Reports 10 to 15.

Map Reference

ODM Map 2218 (Sage et al. 1975)

DUFFELL LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, graphite

Location

NTS 52O/2NW

About 32 miles southwest of Pickle Lake and just south of Duffell Lake.

Latitude	Longitude
51°13'15"	90°39'15"
51°12'25"	90°38'35"

Remarks

The deposits occur in metavolcanics marginal to the Duffell Lake stock. The rock weathers rusty brown and is dark grey-brown on fresh surfaces. The rocks display well-developed foliation.

References

Sage and Breaks (1976, p.129-140)

Map Reference

ODM Map 2218 (Sage et al. 1975)

52O/3NE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, graphite, pyrrhotite

Location

NTS 52O/3NE

Latitude	Longitude
51°12'38"	91°00'15"
51°12'15"	91°06'35"
51°11'25"	91°03'20"

Remarks

The area is underlain by Early Precambrian metavolcanics and metasediments with some granitic intrusions. Diamond drilling showed minor patches of graphitic alteration, thin magnetite-bearing bands and some blebs of sulphides.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Sioux Lookout

52O/3NE, and Drum Lake Report.

Map Reference

ODM Map 2218 (Sage et al. 1975)

COMINCO DEPOSIT

Classification

Minor occurrences

Commodities

Pyrrhotite, graphite, pyrite, chalcopyrite

Location

NTS 52O/3SE

Johnston Bay, Lake St. Joseph.

Latitude	Longitude
51°00'30"	91°06'30"
51°01'00"	91°06'25"

Remarks

Diamond drill results showed traces of sulphides and graphitic bands.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Sioux Lookout

52O/3SE, Johnston Bay Reports.

Map Reference

ODM Map 2218 (Sage et al. 1975)

NEW CONEX DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, graphite

Location

NTS 52O/7SW

About 30 miles southwest of Pickle Lake and 3/4 mile southeast of Wright Lake.

Latitude	Longitude
51°17'00"	90°53'15"

Remarks

The occurrence is found in a zone of mafic to intermediate rocks. Analysis of airborne surveys revealed potential massive sulphide deposits, however, the 18 anomalous trends that were investigated on the ground in the area proved inconclusive.

References

Sage and Breaks (1976, p.130-137)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Caley Lake Area, Technical Survey File 2.687.

Wright Lake Area, Technical Survey File 63.2807.

Map Reference

ODM Map 2218 (Sage et al. 1975)

UMEX (KAWINOGANS LAKE) DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, graphite, pyrrhotite, chalcopyrite, sphalerite

Location

NTS 52O/7SW

About 30 miles southwest of Pickle Lake and 1/2 mile north of Knupp Lake at western end of Kawinogans Lake.

Latitude	Longitude
51°17'30"	90°46'45"
51°18'01"	90°46'35"

Remarks

The occurrences are in a zone of mafic to intermediate rocks. Analysis of airborne surveys revealed potential massive sulphide deposits, however, the 18 anomalous trends that were investigated on the ground in the area proved inconclusive.

References

Sage and Breaks (1976, p.130-137)

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Caley Lake Area, Technical Survey File 2.687.

Wright Lake Area, Technical Survey File 63.2807.

Map Reference

ODM Map 2218 (Sage et al. 1975)

KOVAL-OHMAN PROSPECT

Classification

Major occurrence

Commodities

Gold, arsenopyrite, pyrite, pyrrhotite, graphite

Location

NTS 52O/7SE

About 2 miles south of Bancroft Lake.

Latitude	Longitude
51°15'50"	90°33'50"

Remarks

Mineralization occurs in recurring lenses made up of pyritized quartz filling along a contact zone. Diamond drilling outlined 190,400 tons averaging 0.14-0.19 ounces gold per ton.

References

Ferguson et al. (1971, p.245)

Map Reference

ODM Map 2218 (Sage et al. 1975)

UMEX (KAPKICHI LAKE NORTH) DEPOSIT

Classification

Minor occurrences

Commodities

Graphite, pyrite, pyrrhotite

Location

NTS 52O/8NW

North shore of Kapkichi Lake.

Latitude	Longitude
51°29'52"	90°19'05"
51°29'45"	90°18'08"

Remarks

The INPUT survey showed a number of anomalous trends displaying good conductivity. The showing occurs in a contact zone between 'greenstone' and granite.

References

Sage and Breaks (1976, p.141-213)

Map Reference

ODM Map 2218 (Sage et al. 1975)

CONWEST DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, graphite, pyrrhotite

Location

NTS 52O/8NE

Ponsford Township

Latitude	Longitude
51°29'45"	90°12'40"
51°29'58"	90°12'25"

Remarks

The showings occur as heavily mineralized contorted metasediments. Sludge samples were taken but no significant results were obtained.

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Dona Lake Area, Technical Survey Files 2.737, 2.742.

Kapkichi Lake Area, Technical Survey Files 2.677, 2.625.

Map Reference

ODM Map 2218 (Sage et al. 1975)

JAMES BAY MINING DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, graphite, pyrrhotite, chalcopyrite

Location

NTS 52O/8NE

Just east of Ponsford Township

Latitude	Longitude
51°28'15"	90°09'30"

Remarks

The showing occurs as heavily mineralized contorted metasediments. Sludge samples were taken but no significant results were obtained.

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Dona Lake Area, Technical Survey Files 2.737, 2.742.

Kapkichi Lake Area, Technical Survey Files 2.677, 2.625.

Map Reference

ODM Map 2218 (Sage et al. 1975)

MCVICAR LAKE NORTH DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, graphite

Location

NTS 52O/11SW

3 miles north of McVicar Lake.

Latitude	Longitude
51°34'43"	91°22'24"

Remarks

The showing consists of disseminated sulphides in Early Precambrian metavolcanics.

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

McVicar Lake Area, Diamond Drilling Reports 1 to 4.

Map Reference

ODM Map 2218 (Sage et al. 1975)

MEXTOR DEPOSIT

Classification

Minor occurrences

Commodities

Pyrrhotite, pyrite, chalcopyrite, graphite

Location

NTS 52O/12NE

At Saddle Creek about 11 miles southeast of Cat Lake.

Latitude	Longitude
51°37'40"	91°35'20"
51°37'42"	91°35'00"

Remarks

Sulphides form disseminations and massive layers in Early Precambrian schist. The best results shown from drilling were 0.09 percent copper, 0.02 percent nickel and 0.01 percent zinc between 114.0 and 118.3 feet.

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Baggy Lake Area, Technical Survey File 63.2543.

Map Reference

ODM Map 2218 (Sage et al. 1975)

HEMATITE

UMEX (KAPKICHI LAKE NORTH) DEPOSIT 2

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, magnetite, hematite

Location

NTS 52O/8NW

North shore of Kapkichi Lake.

Latitude	Longitude
51°29'00"	90°21'25"

Remarks

The showing occurs in a zone of felsic to intermediate intrusive rocks. Diamond drilling and an electromagnetic survey did not reveal significant potential.

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Kapkichi Lake Area, Technical Survey Files 2.442 and 63.2648.

Map Reference

ODM Map 2218 (Sage et al. 1975)

MAGNETITE

PASHKOKOGAN LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrrhotite, pyrite, graphite, chalcopyrite, magnetite, pentlandite

Location

NTS 52O/1SE

Listed under GRAPHITE

MOOSETEGON LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite, magnetite, sphalerite

Location

NTS 52O/3NW

South of Moosetegon Lake Area.

Latitude	Longitude
51°14'20"	91°23'15"
51°10'24"	91°25'41"
51°10'08"	91°22'24"
51°11'05"	91°21'35"
51°11'13"	91°19'19"
51°12'26"	91°20'33"
51°12'58"	91°15'25"
51°14'11"	91°21'10"
51°14'55"	91°20'30"

Map Reference

ODM Map 2218 (Sage et al. 1975)

COCHENOUR WILLANS DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, magnetite, chalcopyrite, pyrrhotite

Location

NTS 52O/3NE

Approximately 40-47 miles southwest of Pickle Lake, between Fry and Duffell Lakes.

Latitude	Longitude
51°13'26"	91°00'20"
51°14'15"	91°13'35"

Map Reference

ODM Map 2218 (Sage et al. 1975)

52O/3SW DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, chalcopyrite, magnetite, sphalerite

Location

NTS 52O/3SW

Latitude	Longitude
51°06'54"	91°27'32"

Map Reference

ODM Map 2218 (Sage et al. 1975)

HAMMERTON LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite, pyrite

Location

NTS 52O/5NE

35 miles southwest of Pickle Lake and about 1 mile northwest of Hammerton Lake.

Latitude	Longitude
51°29'11"	91°32'53"

Map Reference

ODM Map 2218 (Sage et al. 1975)

UMEX (MEEN-DOROTHY LAKES) DEPOSIT

Classification

Minor occurrences

Commodities

Magnetite, pyrite

Location

NTS 52O/6NW

Southwest of Pickle Lake, near Meen and Dorothy Lakes.

Latitude	Longitude
51°28'30"	91°25'00"
51°27'50"	91°27'30"
51°25'45"	91°25'25"
51°24'10"	91°20'00"

Map Reference

ODM Map 2218 (Sage et al. 1975)

52O/6SW DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, chalcopyrite, magnetite, sphalerite

Location

NTS 52O/6SW

Latitude	Longitude
51°15'20"	91°22'45"

Map Reference

ODM Map 2218 (Sage et al. 1975)

GRANITEBOSS-JACKNIFE-KAMINISKAG LAKES DEPOSIT

Classification

Minor occurrences

Commodities

Magnetite, pyrite, pyrrhotite, copper

Location

NTS 52O/6SE

About 40 miles southwest of Pickle Lake in area of Graniteboss, Jacknife and Kaminiskag Lakes.

Latitude	Longitude
51°18'15"	91°03'43"
51°16'45"	91°02'35"
51°16'45"	91°08'01"

Map Reference

ODM Map 2218 (Sage et al. 1975)

UMEX (MUNCH LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 52O/7NE

4 miles northwest of Munch Lake.

Latitude	Longitude
51°26'45"	90°40'30"

Map Reference

ODM Map 2218 (Sage et al. 1975)

UMEX (KAPKICHI LAKE EAST) DEPOSIT

Classification

Major occurrence

Commodities

Copper, nickel, pentlandite, cubanite, magnetite

Location

NTS 52O/8NW

Eastern shore of Kapkichi Lake.

Latitude	Longitude
51°28'15"	90°22'05"

Map Reference

ODM Map 2218 (Sage et al. 1975)

UMEX (KAPKICHI LAKE CENTRAL) DEPOSIT

Classification

Minor occurrences

Commodities

Magnetite, pyrite, pyrrhotite, chalcopyrite

Location

NTS 52O/8NW

Central part of Kapkichi Lake.

Latitude	Longitude
51°25'09"	90°24'30"
51°26'25"	90°24'20"
51°26'55"	90°23'45"
51°27'55"	90°20'05"
51°28'42"	90°22'25"
51°28'55"	90°21'48"
51°27'25"	90°24'15"
51°29'30"	90°22'20"
51°28'55"	90°20'00"
51°28'47"	90°19'25"

Map Reference

ODM Map 2218 (Sage et al. 1975)

UMEX (KAPKICHI LAKE NORTH) DEPOSIT 2

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, magnetite, hematite

Location

NTS 52O/8NW

Listed under HEMATITE

CENTRAL PATRICIA GOLD MINE

Classification

Past producer

Commodities

Silver, gold, pyrrhotite, arsenopyrite, magnetite, ilmenite, chalcopyrite, pyrite

Location

NTS 52O/8NE

Connell Township

Latitude	Longitude
51°29'00"	90°10'05"

Map Reference

ODM Map 2310 (MNR 1974)

ODM Map 2218 (Sage et al. 1975)

UMEX (COUCHEEMOSKOG LAKE) DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, magnetite, pyrrhotite, chalcopyrite

Location

NTS 52O/8SE

About 4 miles west of Coucheemoskog Lake.

Latitude	Longitude
51°17'59"	90°13'37"
51°17'51"	90°12'47"
51°17'36"	90°12'07"

Map Reference

ODM Map 2218 (Sage et al. 1975)

MCVICAR LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Magnetite, pyrrhotite, pyrite, chalcopyrite

Location

NTS 52O/11SW

McVicar Lake area.

Latitude	Longitude
51°36'02"	91°27'20"
51°34'03"	91°25'16"
51°33'06"	91°22'12"
51°31'53"	91°26'55"
51°31'37"	91°26'06"
51°36'05"	91°27'20"
51°35'24"	91°27'07"

Map Reference

ODM Map 2218 (Sage et al. 1975)

CARD LAKE COPPER MINES DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite, pyrite, molybdenum, chalcopyrite, arsenopyrite

Location

NTS 52O/11SE

Latitude	Longitude
51°37'10"	91°14'15"
51°34'28"	91°12'36"

Map Reference

ODM Map 2218 (Sage et al. 1975)

SADDLE CREEK - LANG LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, magnetite, pyrrhotite, chalcopyrite

Location

NTS 52O/12SE

Between Saddle Creek and Lang Lake.

Latitude	Longitude
51°36'45"	91°34'35"
51°35'50"	91°35'00"
51°36'30"	91°32'00"
51°36'00"	91°31'10"
51°37'10"	91°30'00"
51°35'40"	91°35'50"
51°35'32"	91°31'02"
51°34'52"	91°30'24"
51°34'44"	91°30'37"

Map Reference

ODM Map 2218 (Sage et al. 1975)

PYRITE

OSNABURGH LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrrhotite, pyrite, chalcopyrite

Location

NTS 52O/1NE

West of Osnaburgh Lake.

Latitude	Longitude
51°09'11"	90°03'42"
51°09'19"	90°04'31"

Map Reference

ODM Map 2218 (Sage et al. 1975)

SELCO EXPLORATION DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, graphite

Location

NTS 52O/1SW

Listed under GRAPHITE

PASHKOKOGAN LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrrhotite, pyrite, graphite, chalcopyrite, magnetite, pentlandite

Location

NTS 52O/1SE

Listed under GRAPHITE

DUFFELL LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, graphite

Location

NTS 52O/2NW

Listed under GRAPHITE

DUFFELL LAKE WEST DEPOSIT

Classification

Minor occurrences

Commodities

Pyrrhotite, galena, pyrite

Location

NTS 52O/2NW

Approximately 6 miles west of Duffell Lake.

Latitude	Longitude
51°14'55"	90°59'45"
51°13'58"	90°59'02"

Map Reference

ODM Map 2218 (Sage et al. 1975)

MOOSETEGON LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite, magnetite, sphalerite

Location

NTS 52O/3NW

Listed under MAGNETITE

COCHENOUR WILLANS DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, magnetite, chalcopyrite, pyrrhotite

Location

NTS 52O/3NE

Listed under MAGNETITE

DRUM LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite, sphalerite, gold

Location

NTS 52O/3NE

About 4 miles northeast of Drum Lake.

Latitude	Longitude
51°12'02"	91°07'48"

Map Reference

ODM Map 2218 (Sage et al. 1975)

52O/3NE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, graphite, pyrrhotite

Location

NTS 52O/3NE

Listed under GRAPHITE

DRUM-MCVEAN LAKES DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite, sphalerite, arsenopyrite

Location

NTS 52O/3NE

Drum and McVean Lakes area.

Latitude	Longitude
51°14'36"	91°08'01"
51°14'43"	91°07'11"
51°14'44"	91°04'31"
51°14'27"	91°04'07"
51°14'36"	91°03'17"
51°13'06"	91°06'47"
51°12'09"	91°06'15"
51°12'10"	91°06'47"
51°12'18"	91°07'48"
51°12'01"	91°10'16"

Map Reference

ODM Map 2218 (Sage et al. 1975)

DRUM LAKE EAST DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, sphalerite, chalcopyrite, gold

Location

NTS 52O/3NE

To the east of, and near Drum Lake.

Latitude	Longitude
51°11'04"	91°08'01"
51°11'04"	91°07'11"
51°11'20"	91°06'34"
51°10'08"	91°06'34"
51°09'36"	91°02'28"
51°08'55"	91°02'53"
51°10'16"	91°01'14"
51°11'21"	91°01'02"
51°11'08"	91°00'25"

Map Reference

ODM Map 2218 (Sage et al. 1975)

52O/3SW DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, chalcopyrite, magnetite, sphalerite

Location

NTS 52O/3SW

Listed under MAGNETITE

COCHENOUR WILLANS (JOHNSTON BAY) DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite

Location

NTS 52O/3SE

Johnston Bay, Lake St. Joseph

Latitude	Longitude
51°02'25"	91°07'40"
51°01'32"	91°05'30"

Map Reference

ODM Map 2218 (Sage et al. 1975)

COMINCO DEPOSIT

Classification

Minor occurrences

Commodities

Pyrrhotite, graphite, pyrite, chalcopyrite

Location

NTS 52O/3SE

Listed under GRAPHITE

JOHNSTON BAY EAST DEPOSIT

Classification

Minor occurrences

Commodities

Pyrrhotite, pyrite

Location

NTS 52O/3SE

1 mile east of Johnston Bay.

Latitude	Longitude
51°01'32"	91°06'15"
51°02'45"	91°07'45"

Map Reference

ODM Map 2218 (Sage et al. 1975)

FAWTHROP-SENIOR LAKES DEPOSIT

Classification

Minor occurrences

Commodities

Molybdenum, pyrite, pyrrhotite, chalcopyrite

Location

NTS 52O/4NW

Fawthrop and Senior Lakes area.

Latitude	Longitude
51°12'10"	91°53'13"
51°12'01"	51°44'23"

Map Reference

ODM Map 2218 (Sage et al. 1975)

NORTH BAMAJI LAKE (LOON) (COCHENOUR WILLANS) DEPOSIT

Classification

Minor occurrence

Commodities

Molybdenum, silver, gold, chalcopyrite, pyrite

Location

NTS 52O/4NE

South shore of North Bamaji Lake.

Latitude	Longitude
51°08'55"	91°30'12"

Map Reference

ODM Map 2218 (Sage et al. 1975)

NORTH BAMAJI LAKE WEST DEPOSIT

Classification

Minor occurrence

Commodities

Copper, pyrite, molybdenum, fluorite

Location

NTS 52O/4NE

Listed under FLUORITE

ZIONZ LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite

Location

NTS 52O/5NW

Zionz Lake area.

Latitude	Longitude
51°23'18"	91°50'21"

Map Reference

ODM Map 2218 (Sage et al. 1975)

HAMMERTON LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite, pyrite

Location

NTS 52O/5NE

Listed under MAGNETITE

UMEX (MEEN-DOROTHY LAKES) DEPOSIT

Classification

Minor occurrences

Commodities

Magnetite, pyrite

Location

NTS 52O/6NW

Listed under MAGNETITE

BURLEY LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, sphalerite, chalcopyrite

Location

NTS 52O/6SW

Approximately 5 miles southwest of Burley Lake.

Latitude	Longitude
51°15'03"	91°22'15"
51°15'16"	91°22'53"
51°15'16"	91°22'03"
51°15'16"	91°20'21"
51°15'16"	91°20'08"
51°15'09"	91°19'56"

Map Reference

ODM Map 2218 (Sage et al. 1975)

52O/6SW DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, chalcopyrite, magnetite, sphalerite

Location

NTS 52O/6SW

Listed under MAGNETITE

GRANITEBOSS-JACKNIFE-KAMINISKAG LAKES DEPOSIT

Classification

Minor occurrences

Commodities

Magnetite, pyrite, pyrrhotite, copper

Location

NTS 52O/6SE

Listed under MAGNETITE

NEW CONEX DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, graphite

Location

NTS 52O/7SW

Listed under GRAPHITE

UMEX (KAWINOGANS LAKE) DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, graphite, pyrrhotite, chalcopyrite, sphalerite

Location

NTS 52O/7SW

Listed under GRAPHITE

KOVAL-OHMAN PROSPECT

Classification

Major occurrence

Commodities

Gold, arsenopyrite, pyrite, pyrrhotite, graphite

Location

NTS 52O/7SE

Listed under GRAPHITE

UMEX (KAPKICHI LAKE CENTRAL) DEPOSIT

Classification

Minor occurrences

Commodities

Magnetite, pyrite, pyrrhotite, chalcopyrite

Location

NTS 52O/8NW

Listed under MAGNETITE

UMEX (KAPKICHI LAKE NORTH) DEPOSIT 1

Classification

Minor occurrences

Commodities

Graphite, pyrite, pyrrhotite

Location

NTS 52O/8NW

Listed under GRAPHITE

UMEX (KAPKICHI LAKE NORTH) DEPOSIT 2

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, magnetite, hematite

Location

NTS 52O/8NW

Listed under HEMATITE

CENTRAL PATRICIA GOLD MINE

Classification

Past producer

Commodities

Silver, gold, pyrrhotite, arsenopyrite, magnetite, ilmenite, chalcopyrite, pyrite

Location

NTS 52O/8NE

Listed under MAGNETITE

CONWEST DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, graphite, pyrrhotite

Location

NTS 52O/8NE

Listed under GRAPHITE

JAMES BAY MINING DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, graphite, pyrrhotite, chalcopyrite

Location

NTS 52O/8NE

Listed under GRAPHITE

CONNELL TOWNSHIP DEPOSIT

Classification

Minor occurrences

Commodities

Gold, pyrite, pyrrhotite, silver, arsenopyrite, chalcopyrite

Location

NTS 52O/8NE

Connell Township

Latitude	Longitude
51°29'11"	90°04'44"
51°29'11"	90°04'21"
51°29'09"	90°03'04"
51°28'06"	90°01'39"

Map Reference

ODM Map 2218 (Sage et al. 1975)

CANICO DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, chalcopyrite

Location

NTS 52O/8SE

About 4 miles west of Coucheemoskog Lake.

Latitude	Longitude
51°17'28"	90°13'45"

Map Reference

ODM Map 2218 (Sage et al. 1975)

UMEX (COUCHEEMOSKOG LAKE) DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, magnetite, pyrrhotite, chalcopyrite

Location

NTS 52O/8SE

Listed under MAGNETITE

PICKLE CROW EXPLORATIONS DEPOSIT

Classification

Past producer

Commodities

Gold, silver, pyrrhotite, pyrite, arsenopyrite, sphalerite, chalcopyrite, galena, scheelite

Location

NTS 52O/9SE

About 4 miles northeast of Pickle Crow.

Latitude	Longitude
51°31'05"	90°02'28"
51°30'16"	90°02'16"

Map Reference

ODM Map 2310 (MNR 1974)

ODM Map 2218 (Sage et al. 1975)

TARP LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, chalcopyrite, pyrrhotite, gold, silver, arsenopyrite

Location

NTS 52O/9SE

Southeast of Tarp Lake.

Latitude	Longitude
51°30'36"	90°11'55"
51°30'18"	90°06'59"
51°30'55"	90°06'35"
51°32'34"	90°03'05"

Map Reference

ODM Map 2218 (Sage et al. 1975)

NEW JERSEY ZINC EXPLORATION DEPOSIT

Classification

Minor occurrence

Commodities

Copper, nickel, cobalt, lead, pyrite

Location

NTS 52O/11SW

Listed under COBALT

MCVICAR LAKE NORTH DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, graphite

Location

NTS 52O/11SW

Listed under GRAPHITE

MCVICAR LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite, pyrrhotite, pyrite, chalcopyrite

Location

NTS 52O/11SW

Listed under MAGNETITE

SEMIA LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Gold, pyrite, arsenopyrite, sphalerite, pyrrhotite, galena

Location

NTS 52O/11SW

South of Semia Lake.

Latitude	Longitude
51°30'41"	91°26'35"

Map Reference

ODM Map 2218 (Sage et al. 1975)

BOCHAWNA (VEIN LAKE) DEPOSIT

Classification

Major occurrence

Commodities

Copper, molybdenum, gold, nickel, chalcopyrite, pyrrhotite, pyrite, sphalerite

Location

NTS 52O/11SE

Western shore of Vein Lake.

Latitude	Longitude
51°32'34"	91°00'37"

Map Reference

ODM Map 2218 (Sage et al. 1975)

CARD LAKE COPPER MINES DEPOSIT

Classification

Minor occurrences

Commodities

Magnetite, pyrite, molybdenum, chalcopyrite, arsenopyrite

Location

NTS 52O/11SE

Listed under MAGNETITE

MEXTOR DEPOSIT

Classification

Minor occurrences

Commodities

Pyrrhotite, pyrite, chalcopyrite, graphite

Location

NTS 52O/12NE

Listed under GRAPHITE

SADDLE CREEK DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, galena, chalcopyrite, silver

Location

NTS 52O/12NE

Saddle Creek area.

Latitude	Longitude
51°38'06"	91°35'33"
51°37'26"	91°35'33"
51°37'26"	91°33'42"

Map Reference

ODM Map 2218 (Sage et al. 1975)

INITIATIVE EXPLORATIONS DEPOSIT

Classification

Minor occurrence

Commodities

Goethite, pyrite

Location

NTS 52O/12SE

Listed under GOETHITE

SADDLE CREEK - LANG LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, magnetite, pyrrhotite, chalcopyrite

Location

NTS 52O/12SE

Listed under MAGNETITE

THORIUM

MOOSETEGON LAKE SOUTH DEPOSIT (BAMAJI URANIUM OCCURRENCE) (NO. 1 SHOWING)

Classification

Minor occurrence

Commodities

Uranium, thorium, gold, silver, pyrite

Location

NTS 52O/3NW

Approximately 1/2 mile south of Moosetegon Lake.

Latitude	Longitude
51°10'15"	91°25'25"

Remarks

The showing occurs in a narrow vertically dipping shear zone, exposed for a distance of 880 feet. The mineralization is correlated to bands of highly sheared pyritic sericite schist.

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Fry Lake Area, Technical Survey File 63.2510.

Map Reference

ODM Map 2218 (Sage et al. 1975)

NTS 52P MIMINISKA LAKE SHEET

COBALT

GOVERNOR DEPOSIT

Classification

Major occurrence

Commodities

Copper, nickel, cobalt

Location

NTS 52P/2NW

1/4 mile south of the west end of Gould Lake.

Latitude	Longitude
51°11'45"	88°52'50"

Remarks

Mineralization occurs as irregularly distributed blebs and as disseminations in anorthosite and hornblende mica schist. Grab samples indicated 0.71-1.87 percent copper and 0.02-0.18 percent nickel.

References

Shklanka (1969, p.350)

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Thunder Bay

File Governor Gold Mines Ltd.

Map Reference

ODM Map 2310 (MNR 1974)

SHABUSKWIA LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Copper, nickel, cobalt

Location

NTS 52P/2NW

East shore of Shabuskwia Lake.

Latitude	Longitude
51°12'05"	88°56'30"

Remarks

The deposit measures 30 feet by 60 feet and occurs in anorthositic gabbro. Grab samples indicated 0.52-2.30 percent copper, 0.38-0.62 percent nickel and 0.21-0.26 percent cobalt.

References

Shklanka (1969, p.340)

Map Reference

ODMNA Map 2237 (Thurston et al. 1972)

GRAPHITE

MISEHKOW RIVER (STURDY MINES) PROSPECT

Classification

Major occurrence

Commodities

Iron, magnetite, hematite, pyrite, pyrrhotite, graphite

Location

NTS 52P/4NE

3 miles east of Iron Falls.

Latitude	Longitude
51°08'45"	89°32'15"

Remarks

The deposit consists of uniform well-bedded chert-magnetite layers with minor hematite and sulphide mineralization in some areas. The width varies from 156 to 508 feet and the grade of deposit varies from 17.3 percent iron over 305 feet to a maximum of 28.4 percent across 140 feet.

References

Sage and Breaks (1976, p.79, 94-95)

Map Reference

ODM Map 2310 (MNR 1974)

CANICO (ATIKOKIWAM LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, arsenopyrite, graphite, chalcopyrite

Location

NTS 52P/4SW

4 miles southwest of Atikokiwam Lake.

Latitude	Longitude
51°06'30"	89°58'20"

Remarks

Sulphides occur in metavolcanics and are associated with iron formation.

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Canadian Nickel Lowry, Latitude 51°00', Longitude 89°45', District Thunder Bay.

Map Reference

ODM Map 2218 (Sage et al. 1975)

CANICO (FIRST LOON LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, graphite, magnetite

Location

NTS 52P/12SW

3 miles north of First Loon Lake.

Latitude	Longitude
51°37'00"	89°54'20"

Remarks

The showing occurs in a zone of mafic to intermediate metavolcanics.

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File First Loon Lake, Latitude 51°30', Longitude 89°45', District Kenora, Patricia Portion.

Map Reference

ODM Map 2218 (Sage et al. 1975)

HEMATITE

BEAVIS LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Iron, magnetite, hematite, pyrite, pyrrhotite, chalcopyrite

Location

NTS 52P/3NE

2 miles south of Beavis Lake.

Latitude	Longitude
51°08'49"	89°05'20"

Remarks

A magnetite-quartz iron formation with some hematite is interbedded with Early Precambrian metasediments. A 50-pound bulk sample taken along a 15-foot trench in a high grade section contained 31.2 percent total iron. The formation trends east and is up to 600 feet thick.

References

Shklanka (1968, p.452)

Map Reference

ODM Map 2218 (Sage et al. 1975)

ODMNA Map 2237 (Thurston et al. 1972)

GREENMANTLE LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Iron, magnetite, hematite

Location

NTS 52P/3SW

Northwest of Murrell Lake.

Latitude	Longitude
51°06'04"	89°16'44"

Remarks

Banded quartz-magnetite occurs in an Early Precambrian migmatitic complex. The deposit varies from 300 to 1000 feet in width and is 11,000 feet in length.

References

Shklanka (1968, p.452)

Map Reference

ODM Map 2218 (Sage et al. 1975)

MISEHKOW RIVER (STURDY MINES) PROSPECT

Classification

Major occurrence

Commodities

Iron, magnetite, hematite, pyrite, pyrrhotite, graphite

Location

NTS 52P/4NE

Listed under GRAPHITE

REXDALE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, hematite, pyrrhotite

Location

NTS 52P/9NE

East of Opikeigen Lake.

Latitude	Longitude
51°39'40"	88°08'10"
51°41'35"	88°03'50"

Remarks

Disseminated pyrite and pyrrhotite form less than 2 percent of the mafic metavolcanics and there are many quartz veins in the area.

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Rexdale, Latitude 51°30', Longitude 88°00', District Kenora.

Map Reference

ODMNA Map 2237 (Thurston et al. 1972)

LITHIUM

LILYPAD LAKES (SOUTHWEST SHOWING) DEPOSIT

Classification

Minor occurrence

Commodities

Lithium, tungsten, tantalum

Location

NTS 52P/9NW

North of the Lilypad Lakes.

Latitude	Longitude
51°38'15"	88°16'30"

Remarks

Spodumene and lepidolite-bearing pegmatite veins cut mafic metavolcanics in the area. Minor amounts of scheelite, amblygonite and fluorite are also found in the veins.

Ontario Ministry of Natural Resources Files

Assessment Files Research Office, Ontario Geological Survey, Toronto

Ferguson Lake Area, Diamond Drilling Reports 10 and 11.

Resident Geologist's Files, Thunder Bay

File Standard Lithium Corp.

Map Reference

ODMNA Map 2237 (Thurston et al. 1972)

LILYPAD LAKES (NORTH SHOWING) DEPOSIT

Classification

Minor occurrences

Commodities

Lithium, tantalum

Location

NTS 52P/9NE

North of the Lilypad Lakes.

Latitude	Longitude
51°38'50"	88°14'55"
51°39'00"	88°14'25"
51°38'40"	88°14'10"

Remarks

Pegmatite veins cutting mafic metavolcanics occur in the area. The main mineralized veins contain 20 percent spodumene. They are vertical and vary from about 5 to 25 feet in width over a length of 800 feet.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Thunder Bay

File Standard Lithium Corp.

Map Reference

ODM Map P.926 (Wallace 1974)

MAGNETITE

BEAVIS LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Iron, magnetite, hematite, pyrite, pyrrhotite, chalcopyrite

Location

NTS 52P/3NE

Listed under HEMATITE

GREENMANTLE LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Iron, magnetite, hematite

Location

NTS 52P/3SW

Listed under HEMATITE

SAPWELL LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Magnetite

Location

NTS 52P/3SE

Northwest shore of Sapwell Lake.

Latitude	Longitude
51°03'23"	89°12'57"

Map Reference

ODM Map 2218 (Sage et al. 1975)

MISEHKOW RIVER (STURDY MINES) PROSPECT

Classification

Major occurrence

Commodities

Iron, magnetite, hematite, pyrite, pyrrhotite, graphite

Location

NTS 52P/4NE

Listed under GRAPHITE

AUGUST LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Iron, magnetite

Location

NTS 52P/4SE

East end of August Lake.

Latitude	Longitude
51°03'04"	89°33'14"

Map Reference

ODM Map 2218 (Sage et al. 1975)

CANICO (NAPIER LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, magnetite

Location

NTS 52P/11SW

1/4 mile south of Napier Lake.

Latitude	Longitude
51°33'30"	89°21'05"

Map Reference

ODM Map 2218 (Sage et al. 1975)

CANICO (SNOWFLAKE LAKE) DEPOSIT

Classification

Minor occurrences

Commodities

Pyrrhotite, pyrite, magnetite

Location

NTS 52P/11SE

About 50 miles northeast of Pickle Lake, Snowflake Lake area.

Latitude	Longitude
51°34'50"	89°07'20"
51°32'40"	89°04'05"
51°30'35"	89°02'30"

Map Reference

ODM Map 2218 (Sage et al. 1975)

CANICO (FIRST LOON LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, graphite, magnetite

Location

NTS 52P/12SW

Listed under GRAPHITE

UMEX (FIRST LOON LAKE) DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, magnetite, chalcopyrite

Location

NTS 52P/12SW

About 18 miles northeast of Pickle Lake, to the northwest of First Loon Lake.

Latitude	Longitude
51°37'15"	89°53'15"
51°36'30"	89°57'58"
51°33'30"	89°54'20"

Map Reference

ODM Map 2218 (Sage et al. 1975)

PYRITE

BEAVIS LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Iron, magnetite, hematite, pyrite, pyrrhotite, chalcopyrite

Location

NTS 52P/3NE

Listed under HEMATITE

MISEHKOW RIVER (STURDY MINES) PROSPECT

Classification

Major occurrence

Commodities

Iron, magnetite, hematite, pyrite, pyrrhotite, graphite

Location

NTS 52P/4NE

Listed under GRAPHITE

CANICO (ATIKOKIWAM LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, arsenopyrite, graphite, chalcopyrite

Location

NTS 52P/4SW

Listed under GRAPHITE

CARON CREEK DEPOSIT

Classification

Minor occurrences

Commodities

Pyrrhotite, pyrite, galena

Location

NTS 52P/4SW

Northeast of Caron Creek.

Latitude	Longitude
51°05'32"	89°55'53"
51°05'49"	89°55'45"

Map Reference

ODM Map 2218 (Sage et al. 1975)

MCCULLAGH TOWNSHIP DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 52P/5NW

McCullagh Township

Latitude	Longitude
51°29'55"	89°59'55"

Map Reference

ODM Map 2218 (Sage et al. 1975)

HUDSON BAY EXPLORATION DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite

Location

NTS 52P/7SE, 8SW

Central part of Attwood Lake.

Latitude	Longitude
51°15'05"	88°30'30"
51°15'45"	88°28'30"

Map Reference

ODMNA Map 2237 (Thurston et al. 1972)

LILYPAD LAKE NORTH DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite

Location

NTS 52P/9NW

1 mile north of Lilypad Lakes.

Latitude	Longitude
51°38'55"	88°16'00"

Map Reference

ODMNA Map 2237 (Thurston et al. 1972)

REXDALE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, hematite, pyrrhotite

Location

NTS 52P/9NE

Listed under HEMATITE

FROND LAKE MINING DEPOSIT

Classification

Major occurrence

Commodities

Gold, pyrite, pyrrhotite, arsenopyrite, chalcopyrite

Location

NTS 52P/9SW

16 miles northwest of Fort Hope at southwestern end of Ishkish Lake.

Latitude	Longitude
51°36'50"	88°19'50"

Map Reference

ODMNA Map 2237 (Thurston et al. 1972)

ODM Map 2310 (MNR 1974)

FORT HOPE DEPOSIT

Classification

Major occurrence

Commodities

Gold, pyrrhotite, pyrite, chalcopyrite

Location

NTS 52P/9SE

About 1 mile southwest of Rond Lake.

Latitude	Longitude
51°36'55"	88°01'55"

Map Reference

ODM Map 2310 (MNR 1974)

CANICO (NAPIER LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, magnetite

Location

NTS 52P/11SW

Listed under MAGNETITE

CANICO (SNOWFLAKE LAKE) DEPOSIT

Classification

Minor occurrences

Commodities

Pyrrhotite, pyrite, magnetite

Location

NTS 52P/11SE

Listed under MAGNETITE

CANICO (FIRST LOON LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, graphite, magnetite

Location

NTS 52P/12SW

Listed under GRAPHITE

UMEX (FIRST LOON LAKE) DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, magnetite, chalcopyrite

Location

NTS 52P/12SW

Listed under MAGNETITE

FIRST LOON LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite

Location

NTS 52P/12SW

First Loon Lake area.

Latitude	Longitude
51°37'18"	89°53'01"
51°36'54"	89°52'24"
51°34'36"	89°49'56"
51°32'50"	89°56'18"
51°32'02"	89°56'18"
51°31'54"	89°57'57"
51°32'02"	89°53'38"

Map Reference

ODM Map 2218 (Sage et al. 1975)

TANTALUM

LILYPAD LAKES (SOUTHWEST SHOWING) DEPOSIT

Classification

Minor occurrence

Commodities

Lithium, tungsten, tantalum

Location

NTS 52P/9NW

Listed under LITHIUM

LILYPAD LAKES (NORTH SHOWING) DEPOSIT

Classification

Minor occurrences

Commodities

Lithium, tantalum

Location

NTS 52P/9NE

Listed under LITHIUM

NTS 53A WUNNUMMIN LAKE SHEET

APATITE

SCHRYBURT LAKE COMPLEX

Classification

Minor occurrence

Commodities

Niobium, uranium, chalcopyrite, pyrochlore, apatite, magnetite, vermiculite

Location

NTS 53A/12SE

Immediately west of Schryburt Lake.

Latitude	Longitude
52°36'12"	89°36'57"

Remarks

The rocks of the carbonatite complex vary from pure calcite to almost pure apatite with several thick bands of massive magnetite. Accessory minerals include pyrochlore, perovskite and vermiculite.

References

Thurston et al. (1975, p.244,245)

Map Reference

OGS Map P.2236 (Sage and Wright 1979a)

BIG BEAVER HOUSE COMPLEX

Classification

Major occurrence

Commodities

Niobium, copper, apatite

Location

NTS 53A/13NW

About 3 miles east of Biarro Lake.

Latitude	Longitude
52°54'05"	89°55'00"

Remarks

The alkalic rock - carbonatite body contains concentrations of apatite, magnetite, pyrrhotite, chalcopyrite and niobium. The body is circular in outline with a diameter of about 3 miles.

References

Thurston et al. (1975, p.236-238)

Map Reference

OGS Map P.2237 (Sage and Wilkinson 1979)

GRAPHITE

CONWEST (HORLEY LAKE SOUTHWEST) DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, graphite, pyrrhotite

Location

NTS 53A/9NW

Southwest of Horley Lake.

Latitude	Longitude
52°38'35"	88°29'00"
52°39'25"	88°27'50"

Remarks

The showings occur in metavolcanics (silicified or chloritized andesitic tuff). Sulphides are present as massive nodules or fine disseminations throughout the rock.

References

Thurston et al. (1975, p.199-201)

Map Reference

ODM Map 2287 (Thurston et al. 1974)

MAGNETITE

SCHRYBURT LAKE COMPLEX

Classification

Minor occurrence

Commodities

Niobium, uranium, chalcopyrite, pyrochlore, apatite, magnetite, vermiculite

Location

NTS 53A/12SE

Listed under APATITE

NIOBIUM

SCHRYBURT LAKE COMPLEX

Classification

Minor occurrence

Commodities

Niobium, uranium, chalcopyrite, pyrochlore, apatite, magnetite, vermiculite

Location

NTS 53A/12SE

Listed under APATITE

BIG BEAVER HOUSE COMPLEX

Classification

Major occurrence

Commodities

Niobium, copper, apatite

Location

NTS 53A/13NW

Listed under APATITE

PYRITE

NEAWAGANK LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 53A/5NW

Northwest shore of Neawagank Lake.

Latitude	Longitude
52°27'18"	89°49'51"

Map Reference

ODM Map 2218 (Sage et al. 1975)

CONWEST (HORLEY LAKE SOUTHWEST) DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, graphite, pyrrhotite

Location

NTS 53A/9NW

Listed under GRAPHITE

CONWEST (HORLEY LAKE WEST) DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 53A/9NW

About 1.5 miles west of Horley Lake.

Latitude	Longitude
52°40'25"	88°23'15"

Map Reference

ODM Map 2287 (Thurston et al. 1974)

CANICO (PEEAGWON CREEK) DEPOSIT 1

Classification

Minor occurrences

Commodities

Pyrite

Location

NTS 53A/9SE

Peeagwon Creek - Nibinamik Lake area.

Latitude	Longitude
52°31'25"	88°13'45"
52°32'05"	88°10'25"
52°32'30"	88°10'20"

Map Reference

ODMNA Map P.715 (Thurston et al. 1971)

CANICO (BUCHESKI LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Copper, pyrite, zinc

Location

NTS 53A/10NE

About 5 miles north of Bucheski Lake.

Latitude	Longitude
52°40'20"	88°35'00"

Map Reference

ODMNA Map P.715 (Thurston et al. 1971)

CANICO (PEEAGWON CREEK) DEPOSIT 2

Classification

Minor occurrences

Commodities

Pyrite

Location

NTS 53A/10NE

Peeagwon Creek - Nibinamik Lake area.

Latitude	Longitude
52°40'35"	88°35'00"
52°43'15"	88°34'15"
52°44'00"	88°34'20"
52°42'15"	88°33'25"
52°37'40"	88°33'10"
52°42'40"	88°37'10"
52°43'00"	88°37'30"
52°43'15"	88°34'50"
52°45'00"	88°40'35"
52°45'00"	88°37'20"

Map Reference

ODM Map 2287 (Thurston et al. 1974)

Sketch map (Thurston et al. 1975, Figure 9)

CANICO (PEEAGWON CREEK) DEPOSIT 3

Classification

Minor occurrences

Commodities

Pyrite

Location

NTS 53A/10SW

Peeagwon Creek - Nibinamik Lake area.

Latitude	Longitude
52°35'50"	88°50'45"
52°35'20"	88°50'50"
52°35'25"	88°50'10"
52°35'00"	88°49'50"
52°35'00"	88°49'15"

Map Reference

Sketch map (Thurston et al. 1975, Figure 9)

CONWEST (PEEAGWON CREEK) DEPOSIT 1

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 53A/10SW

Peeagwon Creek area.

Latitude	Longitude
52°37'30"	88°48'00"

Map Reference

ODM Map 2287 (Thurston et al. 1974)

CANICO (PEEAGWON CREEK) DEPOSIT 4

Classification

Minor occurrence

Commodities

Pyrite

Location

NTS 53A/10SE

Peeagwon Creek area.

Latitude	Longitude
52°35'45"	88°32'50"

Map Reference

ODMNA Map P.715 (Thurston et al. 1971)

CONWEST (PEEAGWON CREEK) DEPOSIT 2

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite

Location

NTS 53A/10SE

Peeagwon Creek area.

Latitude	Longitude
52°33'12"	88°40'00"
52°35'45"	88°39'25"
52°34'00"	88°38'40"
52°33'40"	88°39'10"
52°32'50"	88°40'25"

Map Reference

ODM Map 2287 (Thurston et al. 1974)

...ICO (SENNETT LAKE) DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite

Location

NTS 53A/15SW

About 1.5 miles east of Sennett Lake.

Latitude	Longitude
52°50'10"	88°50'05"
52°49'50"	88°50'00"

Map Reference

Sketch map (Thurston et al. 1975, Figure 9)

PYROCHLORE

SCHRYBURT LAKE COMPLEX

Classification

Minor occurrence

Commodities

Niobium, uranium, chalcopyrite, pyrochlore, apatite, magnetite, vermiculite

Location

NTS 53A/12SE

Listed under APATITE

INTERNATIONAL MINERALS AND CHEMICALS DEPOSIT

Classification

Minor occurrence

Commodities

Pyrochlore

Location

NTS 53A/13NW

About 4 miles south of Big Beaver House.

Latitude	Longitude
52°55'10"	89°54'20"

Remarks

Mineralization occurs in streaks and patches in the border phase of carbonate dikes.

References

Thurston et al. (1975, p.244-245)

Map Reference

ODM Map 2292 (Bennett et al. 1974)

VERMICULITE

SCHRYBURT LAKE COMPLEX

Classification

Minor occurrence

Commodities

Niobium, uranium, chalcopyrite, pyrochlore, apatite, magnetite, vermiculite

Location

NTS 53A/12SE

Listed under APATITE

NTS 53B NORTH CARIBOU LAKE SHEET

ASBESTOS

LIBERT LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 53B/9SW

North shore of Libert Lake.

Latitude	Longitude
52°31'15"	90°26'40"

Remarks

Amphibolite is associated with a magnetite-quartz iron formation in Early Precambrian metavolcanics and metasediments.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Sioux Lookout

53B/9SW.

Map Reference

ODM Map P.526 (Ayres 1969b)

INCO (AGUTUA ARM) DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 53B/14SE

Agutua Arm, North Eyapamikama Lake.

Latitude	Longitude
52°51'45"	91°14'20"

Remarks

Mineralization occurs in amphibolite of Early Precambrian age.

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Red Lake

53B/14SE.

Map Reference

ODM Map P.526 (Ayres 1969b)

GRAPHITE

FORESTER LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Graphite, pyrrhotite, gold

Location

NTS 53B/8NE

Western shore of Forester Lake.

Latitude	Longitude
52°28'09"	90°07'21"

Remarks

Mineralization occurs in a silicified shear zone in mafic metavolcanics and metasediments.

References

Sage and Breaks (1976, p.62-68)

Map Reference

ODM Map P.807 (Sage et al. 1973)

INCO (THURSTON BAY) DEPOSIT

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 53B/9NW

About 3 miles east of Thurston Bay, North Caribou Lake.

Latitude	Longitude
52°40'10"	90°23'40"

Remarks

Mineralization occurs in mafic metavolcanics. Graphitic schist with streaks of pyrite and pyrrhotite were encountered by diamond drilling.

References

Thurston et al. (1975, p.70-74)

Map Reference

ODM Map 2292 (Bennett et al. 1974)

PYRITE

HORSESHOE LAKE WEST DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, gold

Location

NTS 53B/2NW

West of Horseshoe Lake.

Latitude	Longitude
52°12'34"	90°48'32"
52°12'02"	90°46'06"

Map Reference

ODM Map 2218 (Sage et al. 1975)

UPPER WINDIGO LAKE (CENTRAL) DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite

Location

NTS 53B/5NE

Central portion of Upper Windigo Lake.

Latitude	Longitude
52°29'36"	91°35'04"
52°29'36"	91°33'05"

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Red Lake

53B/5NE.

FORESTER LAKE SOUTHEAST DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite

Location

NTS 53B/8NE

Southeast of Forester Lake.

Latitude	Longitude
52°27'34"	90°05'04"
52°27'10"	90°03'58"

Map Reference

ODM Map P.526 (Ayres 1969b)

CARIBOU LAKE SOUTH DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite

Location

NTS 53B/9NW

East of southern end of Caribou Lake.

Latitude	Longitude
52°43'15"	90°26'41"
52°42'10"	90°24'03"

Map Reference

ODM Map P.526 (Ayres 1969b)

ODM Map 2292 (Bennett et al. 1974)

MARKOP LAKE EAST DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 53B/9SE

About 2 miles east of Markop Lake.

Latitude	Longitude
52°30'55"	90°08'23"

Map Reference

ODM Map P.526 (Ayres 1969b)

UPPER WINDIGO LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite

Location

NTS 53B/12SE

Upper Windigo Lake area.

Latitude	Longitude
52°31'08"	91°32'16"
52°31'00"	91°32'17"
52°30'00"	91°33'18"
52°30'00"	91°35'57"
52°31'00"	91°33'19"
52°30'50"	91°34'51"

Ontario Ministry of Natural Resources Files

Resident Geologist's Files, Red Lake

53B/12SE.

53B/14NE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, arsenopyrite, copper

Location

NTS 53B/14NE

Latitude	Longitude
52°53'06"	91°09'56"

Map Reference

ODM Map P.526 (Ayres 1969b)

NTS 53C NORTH SPIRIT LAKE SHEET

ASBESTOS

SOUTH TROUT LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Asbestos

Location

NTS 53C/13SE

Approximately 2 miles south of the east end of South Trout Lake.

Latitude	Longitude
52°51'40"	93°39'40"

Remarks

The showing occurs in serpentinized peridotite which covers an area 100 feet long by 50 feet wide. The maximum fibre content is less than 2 percent.

References

Ayres (1974, p.184)

Map Reference

ODM Map 2262 (Ayres et al. 1973)

BISMUTH

TECK (MATTLESS LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Bismuth, zinc, molybdenum

Location

NTS 53C/12NE

About 1 mile southeast of Mattless Lake.

Latitude	Longitude
52°44'15"	93°37'59"

Remarks

Grab samples contained 0.72 percent zinc, 0.10 percent bismuth, 0.04 percent molybdenum and 0.10 percent beryllium. Mineralization occurs in a quartz vein which is in gneissic mafic metavolcanics.

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Mattless Lake East, Latitude 52°30', Longitude 93°30', District Kenora, Patricia Portion.

Map Reference

ODM Map 2262 (Ayres et al. 1973)

CHROMIUM

MCBEAN DEPOSIT

Classification

Minor occurrence

Commodities

Chromium, nickel

Location

NTS 53C/10SW

North of Peridotite Bay, Spirit Lake.

Latitude	Longitude
52°30'16"	92°51'24"

Remarks

Mineralization occurs in Precambrian ultramafic rocks. Drill logs indicate an alternating sequence of diorite or andesite and iron formation. Assayed samples contained 0.14 percent nickel and 0.28 percent chromium.

References

Wood (1977, p.48-49,52-53).

Map Reference

ODM Map 2262 (Ayres et al. 1973)

LITHIUM

SETTING NET LAKE (MATTLESS LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Lithium (spodumene)

Location

NTS 53C/12NE

About 2 miles east of Mattless Lake.

Latitude	Longitude
52°44'50"	93°37'55"

Remarks

Fine-grained spodumene occurs in a white pegmatite dike which occurs in a granitic batholith. A grab sample contained 0.52 percent lithium.

References

Ayres (1972, p.12)

Map Reference

ODM Map 2262 (Ayres et al. 1973)

BEAR HEAD LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Lithium

Location

NTS 53C/13SE

About 1/2 mile north of the northern part of Bear Head Lake.

Latitude	Longitude
52°48'00"	93°44'40"

Remarks

The showing occurs as holmquistite, the lithium-bearing amphibole, in granitic rocks.

References

Ayres (1972, p.12)

Map Reference

ODM Map 2262 (Ayres et al. 1973)

PYRITE

NORTH TROUT LAKE SOUTHEAST DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 53C/13NE

Southeastern shore of North Trout Lake.

Latitude	Longitude
52°53'06"	93°40'22"

Map Reference

ODM Map 2262 (Ayres et al. 1973)

THORIUM

CAM (BEAR HEAD LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Uranium, thorium, molybdenum

Location

NTS 53C/13SW

Approximately 2-1/2 miles northeast of Maw Lake.

Latitude	Longitude
52°48'12"	93°50'40"

Remarks

Mineralization occurs in pegmatite-bearing zones between biotite-granite gneiss to the south and a migmatitic granite gneiss - pegmatite complex to the north.

References

Johnston (1968, p.43-44)
Robertson (1968, p.59-60)

Map Reference

ODM Map 2262 (Ayres et al. 1973)

CAM GROUP A DEPOSIT

Classification

Minor occurrence

Commodities

Uranium, thorium, molybdenum, lead

Location

NTS 53C/13SW

Southwest side of Bear Head Lake.

Latitude	Longitude
52°46'20"	93°45'25"

Remarks

Radioactive, biotite-rich pegmatite lenses occur in a biotite granite - pegmatite - gneiss complex that trends in a northwest direction. Molybdenum, thorium and minor pyrite are associated with the uranium mineralization.

References

Robertson (1968, p.59-60)

Map Reference

ODM Map 2262 (Ayres et al. 1973)

PYRITE

VARVE CLAY LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Silver, lead, gold, copper, pyrite

Location

NTS 53E/1SW

Approximately 6 miles southeast of Varve Clay Lake.

Latitude	Longitude
53°03'15"	94°16'07"

Map Reference

ODM Map 2178 (Bennett et al. 1969)

PYRITE

SANDBORN BAY DEPOSIT

Classification

Minor occurrence

Commodities

Sphalerite, pyrite

Location

NTS 53F/3SE

About 3 miles east of Sandborn Bay, Sandy Lake.

Latitude	Longitude
53°00'07"	93°14'47"

Map Reference

ODM Map 2178 (Bennett et al. 1969)

SANDY MACK LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Copper, molybdenite, pyrite, pyrrhotite, galena

Location

NTS 53F/14NE

1 mile southeast of Sandy Mack Lake.

Latitude	Longitude
53°52'42"	93°07'37"
53°52'48"	93°07'25"

Map Reference

ODM Map 2178 (Bennett et al. 1969)

SEEBER LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Copper, lead, zinc, pyrite, pyrrhotite

Location

NTS 53F/14NE

Northwest of Seeber Lake.

Latitude	Longitude
53°54'11"	93°04'02"

Map Reference

ODM Map 2178 (Bennett et al. 1969)

SEEBER LAKE NORTH DEPOSIT

Classification

Minor occurrence

Commodities

Copper, pyrite, pyrrhotite, arsenopyrite

Location

NTS 53F/14NE

Northern tip of Seeber Lake.

Latitude	Longitude
53°53'55"	93°00'40"

Map Reference

ODM Map 2178 (Bennett et al. 1969)

SANDY MACK LAKE SOUTHEAST DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, chalcopyrite, pyrrhotite, molybdenite

Location

NTS 53F/14NE

Southeast of Sandy Mack Lake.

Latitude	Longitude
53°53'06"	93°06'16"

Map Reference

ODM Map 2178 (Bennett et al. 1969)

NTS 53G MAKOOP LAKE SHEET

GRAPHITE

INCO (BLACKWATER BAY) DEPOSIT

Classification

Minor occurrence

Commodities

Graphite

Location

NTS 53G/5NW

Eastern shore of Blackwater Bay, Severn Lake.

Latitude	Longitude
53°23'15"	91°48'00"

Remarks

Diamond drilling encountered mineralization in the intrusive metagabbro and metadiorite.

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Blackwater Bay, Latitude 53°15', Longitude 91°45', District Kenora, Patricia Portion.

Map Reference

ODM Map 2292 (Bennett et al. 1974)

MUSKRAT DAM LAKE EAST DEPOSIT

Classification

Minor occurrences

Commodities

Graphite

Location

NTS 53G/5NE

About 1 to 3 miles east of Muskrat Dam Lake.

Latitude	Longitude
53°28'15"	91°38'30"
53°27'45"	91°33'45"
53°26'33"	91°30'58"

Remarks

Diamond drill holes revealed mineralization in the metavolcanics of the area.

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Muskrat Dam Lake, Latitude 53°15', Longitude 91°30', District Kenora, Patricia Portion.

Map Reference

ODM Map 2292 (Bennett et al. 1974)

INCO (SEVERN RIVER) DEPOSIT

Classification

Minor occurrences

Commodities

Graphite

Location

NTS 53G/5SW

Along Severn River, southwest of Muskrat Dam Lake.

Latitude	Longitude
53°15'45"	91°58'40"
53°19'53"	91°49'24"
53°22'20"	91°47'40"
53°21'30"	91°50'45"

Remarks

Graphite mineralization occurs in metavolcanics at these localities.

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Kippen Lake Report, Latitude 53°15', Longitude 91°30' and 91°45', District Kenora, Patricia Portion.

Map Reference

ODM Map 2292 (Bennett et al. 1974)

INCO (53G/6NE) DEPOSIT

Classification

Minor occurrences

Commodities

Graphite

Location

NTS 53G/6NE

Latitude	Longitude
53°25'16"	91°14'30"
53°25'56"	91°13'25"
53°25'56"	91°08'10"

Remarks

Diamond drilling indicated that graphite occurs in intrusive metagabbro and metadiorite.

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

Files Murekum Lake, Misquamalbin Lake, Latitude 53°15', Longitude 91°00', District Kenora, Patricia Portion.

Map Reference

ODM Map 2292 (Bennett et al. 1974)

PYRITE

KIPPEN LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Chalcopyrite, pyrite, pyrrhotite

Location

NTS 53G/5SW

About 2.5 miles east of Kippen Lake.

Latitude	Longitude
53°16'21"	91°48'48"

Map Reference

ODM Map 2292 (Bennett et al. 1974)

SOUTHORN LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Sphalerite, galena, silver, pyrite, pyrrhotite

Location

NTS 53G/15NE

Southwest shore of Southorn Lake.

Latitude	Longitude
53°52'26"	90°36'49"

Map Reference

ODM Map 2292 (Bennett et al. 1974)

NTS 53H ASHEWEIG RIVER SHEET

GRAPHITE

INCO (NEMEIGUSABINS LAKE) DEPOSIT 1

Classification

Minor occurrences

Commodities

Pyrrhotite, pyrite, graphite

Location

NTS 53H/5NW

About 27 miles south of town of Big Trout Lake and 6 miles southeast of Nemeigusabins Lake.

Latitude	Longitude
53°26'05"	89°55'10"
53°26'30"	89°50'35"

Remarks

Diamond drilling indicated that mineralization occurs in metavolcanics.

Ontario Ministry of Natural Resources Files

Geoscience Data Centre, Ontario Geological Survey, Toronto

File Nemeigusabins Lake, Latitude 53°15', Longitude 89°45', District Kenora, Patricia Portion.

Map Reference

ODM Map 2292 (Bennett et al. 1974)

INCO (NEMEIGUSABINS LAKE) DEPOSIT 2

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, graphite

Location

NTS 53H/12SW

About 22 miles south of town of Big Trout Lake at southern end of Nemeigusabins Lake.

Latitude	Longitude
53°31'10"	89°54'30"

Remarks

Diamond drilling results indicated that mineralization occurs in mafic to intermediate metavolcanics.

Map Reference

ODM Map 2292 (Bennett et al. 1974)

PYRITE

INCO (NEMEIGUSABINS LAKE) DEPOSIT 1

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, graphite

Location

NTS 53H/5NW

Listed under GRAPHITE

NEMEIGUSABINS LAKE DEPOSIT

Classification

Minor occurrences

Commodities

Pyrrhotite, pyrite, chalcopyrite

Location

NTS 53H/5NW

About 27 miles south of town of Big Trout Lake and 6 miles southeast of Nemeigusabins Lake.

Latitude	Longitude
53°26'37"	89°53'28"
53°25'49"	89°50'35"
53°25'49"	89°48'30"

Map Reference

ODM Map 2292 (Bennett et al. 1974)

BIG TROUT LAKE DEPOSIT 1

Classification

Minor occurrences

Commodities

Pyrite, chalcopyrite, pyrrhotite

Location

NTS 53H/12NW

On an island in eastern part of Big Trout Lake.

Latitude	Longitude
53°44'19"	89°45'34"
53°44'50"	89°47'36"

Map Reference

ODM Map 2292 (Bennett et al. 1974)

BIG TROUT LAKE DEPOSIT 2

Classification

Minor occurrence

Commodities

Pyrrhotite, pyrite, chalcopyrite

Location

NTS 53H/12NE

About 12 miles southeast of town of Big Trout Lake, on small island in eastern part of Big Trout Lake.

Latitude	Longitude
53°41'45"	89°42'24"

Map Reference

ODM Map 2292 (Bennett et al. 1974)

INCO (NEMEIGUSABINS LAKE) DEPOSIT 2

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, graphite

Location

NTS 53H/12NW

Listed under GRAPHITE

53H/12SW DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, pyrrhotite, chalcopyrite

Location

NTS 53H/12SW

About 22 miles south of the town of Big Trout Lake.

Latitude	Longitude
53°30'21"	89°56'37"
53°31'13"	89°53'14"
53°31'45"	89°50'59"

Map Reference

ODM Map 2292 (Bennett et al. 1974)

BIG ISLAND DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, chalcopyrite, gold

Location

NTS 53H/13SW

Southeast point of Big Island, Big Trout Lake.

Latitude	Longitude
53°46'29"	89°57'18"

Map Reference

ODM Map 2292 (Bennett et al. 1974)

TITANIUM

INCO (BIG TROUT LAKE) DEPOSIT

Classification

Minor occurrence

Commodities

Iron, titanium

Location

NTS 53H/13SW

About 2 miles southeast of town of Big Trout Lake.

Latitude	Longitude
53°47'07"	89°50'35"

Remarks

Mineralization occurs near the base of an anorthosite body and comprises up to 40 percent of the rock.

References

Hudec (1964, p.32)

Map Reference

ODM Map P.526 (Ayres 1969b)

ODM Map 2292 (Bennett et al. 1974)

NTS 53J THORNE RIVER SHEET

CERIUM

CARB LAKE COMPLEX

Classification

Minor occurrence

Commodities

Niobium, cerium, lanthanum, vermiculite

Location

NTS 53J/13SW

About 7 miles east of Manitoba-Ontario boundary and about 35 miles northeast of Stull Lake.

Latitude	Longitude
54°46'55"	91°59'50"

Remarks

Diamond drilling and thin sections revealed that the dominant rock type is a pale pink to grey or white carbonate, with scattered grains of phlogopite, amphibole, magnetite and apatite.

References

Ferguson (1971, p.35-36)

Map Reference

ODM Map 2177 (Bennett and Riley 1969)

LANTHANUM

CARB LAKE COMPLEX

Classification

Minor occurrence

Commodities

Niobium, cerium, lanthanum, vermiculite

Location

NTS 53J/13SW

Listed under CERIUM

NIOBIUM

CARB LAKE COMPLEX

Classification

Minor occurrence

Commodities

Niobium, cerium, lanthanum, vermiculite

Location

NTS 53J/13SW

Listed under CERIUM

PYRITE

WITEGON RIVER DEPOSIT

Classification

Minor occurrences

Commodities

Pyrite, copper, pyrrhotite, chalcopyrite

Location

NTS 53J/1SW

Southwest of Witegon River.

Latitude	Longitude
54°02'10"	90°13'32"
54°01'45"	90°13'18"

Map Reference

ODM Map 2177 (Bennett and Riley 1969)

BLACKBEAR RIVER DEPOSIT

Classification

Minor occurrence

Commodities

Copper, pyrite, pyrrhotite

Location

NTS 53J/3NE

About 6 miles north of Blackbear River.

Latitude	Longitude
54°08'06"	91°05'38"

Map Reference

ODM Map 2177 (Bennett and Riley 1969)

SACHIGO RIVER DEPOSIT

Classification

Minor occurrence

Commodities

Copper, pyrite

Location

NTS 53J/10NW

6 miles southeast of Sachigo River.

Latitude	Longitude
54°41'05"	90°48'43"

Map Reference

ODM Map 2177 (Bennett and Riley 1969)

VERMICULITE

CARB LAKE COMPLEX

Classification

Minor occurrence

Commodities

Niobium, cerium, lanthanum, vermiculite

Location

NTS 53J/13SW

Listed under CERIUM

NTS 53K PART OF STULL LAKE SHEET

CERIUM

CARB LAKE COMPLEX

Classification

Minor occurrence

Commodities

Niobium, cerium, lanthanum, vermiculite

Location

NTS 53K/16SE

About 7 miles east of Manitoba-Ontario boundary and 35 miles northeast of Stull Lake.

Latitude	Longitude
54°46'02"	92°00'37"

Remarks

Diamond drilling and thin sections revealed that the dominant rock type is a pale pink to grey or white carbonatite, with scattered grains of phlogopite, amphibole, magnetite and apatite.

References

Ferguson (1971, p.35-36)

Map Reference

OGS Map P.2238 (Sage and Wright 1979a)

LANTHANUM

CARB LAKE COMPLEX

Classification

Minor occurrence

Commodities

Niobium, cerium, lanthanum, vermiculite

Location

NTS 53K/16SE

Listed under CERIUM

NIOBIUM

CARB LAKE COMPLEX

Classification

Minor occurrence

Commodities

Niobium, cerium, lanthanum, vermiculite

Location

NTS 53K/16SE

Listed under CERIUM

PYRITE

MCHENRY LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Copper, pyrite, pyrrhotite, bornite

Location

NTS 53K/2SW

About 4 miles southwest of McHenry Lake.

Latitude	Longitude
54°05'16"	92°46'28"

Map Reference

ODM Map 2178 (Bennett et al. 1969)

PIERCE LAKE DEPOSIT

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite

Location

NTS 53K/2SW

Southern part of Pierce Lake.

Latitude	Longitude
54°06'37"	92°55'43"

Map Reference

ODM Map 2178 (Bennett et al. 1969)

STULL LAKE DEPOSIT 1

Classification

Minor occurrence

Commodities

Pyrite, pyrrhotite, sphalerite, copper

Location

NTS 53K/7NE

Stull Lake area.

Latitude	Longitude
54°25'08"	92°30'54"

Map Reference

ODM Map 2178 (Bennett et al. 1969)

STULL LAKE DEPOSIT 2

Classification

Minor occurrence

Commodities

Pyrite, sphalerite, chalcopyrite

Location

NTS 53K/7NE

Stull Lake Area

Latitude	Longitude
54°22'34"	92°36'46"

Map Reference

ODM Map 2178 (Bennett et al. 1969)

STULL LAKE DEPOSIT 3

Classification

Minor occurrence

Commodities

Gold, pyrite

Location

NTS 53K/7SE

Stull Lake area.

Latitude	Longitude
54°22'18"	92°31'35"

Map Reference

ODM Map 2178 (Bennett et al. 1969)

VERMICULITE

CARB LAKE COMPLEX

Classification

Minor occurrence

Commodities

Niobium, cerium, lanthanum, vermiculite

Location

NTS 53K/16SE

Listed under CERIUM

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Ministry of Natural Resources

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Index

Abbotsford Twp.
Graphite 16
Magnetite 16
Pyrite 16,17
Abbotsford Twp. deposit 1 16
Abbotsford Twp. deposit 2 16
Abbotsford Twp. deposit 3 16,17
Abbotsford Twp. deposit 4 16,17
Abitibi deposit
McArthur Twp. 65
Abram Lake deposit
NTS 52J/4SW 188
Acme option
see Cromarty deposit
Acton Twp.
Talc 105
Adair Twp.
Graphite 16
Pyrite 16
Adair Twp. deposit 16
Adams Twp.
Magnesium 79
Ainley (Nickel Lake Mining) deposit
Watten Twp. 156
Aitken Twp.
Pyrite 85
Aitken Twp. deposit 85
Alarie Twp.
Hematite 48
Manganese 49
Albanel Twp.
Bismuth 40
Cobalt 41
Alcock (Chimo-Alcock) deposit
Ewart Twp. 160
Aldor deposit
NTS 42L/10NW 124
Aldra
Sootheran-Paul prospect
Cunningham Twp. 51-52
Algocen No.1 & No.2 deposits
Coal Creek
McBrien Twp. 121,122,123
Allerston deposit
Shaw Twp. 79,87
Ameranium deposit
NTS 42D/16SW 109
Anaconda deposit
DesRosiers Twp. 55,57
Greenlaw Twp. 52,55,56
Mallard Twp. 50
Tooms Twp. 51,55
NTS 42D/16SW 109
Andrew Bay deposit
Manross Twp. 161,162
April Lake (North) deposit
NTS 52I/14NW 182
April Lake (South) deposit
NTS 52I/13SE 182
Archibald-Hanna deposit
McCaul Twp. 146,151
Arctic Peat Moss Bog
Crozier Twp. 155-156
Area deposits
Kerrs Twp. 69
Area Mines deposit
Carnegie Twp. 86
Area Mines deposit 1
Ivanhoe River
Belford Twp. 95
Area Mines deposit 2
Belford Twp. 96,100
Area Mines deposit 3
Belford Twp. 96,100
Area Mines deposit 4
Belford Twp. 101
Armstrong Twp.
Stone 11-12
Armstrong Twp. deposit 11-12
Arthur Bog
Paipoogne Twp. 142
Asbestos Corp. deposit
Shaw Twp. 66-67
Asmussen Twp.
Soapstone 151
Talc 152
Atikokan Mine (North Range Mining)
Hutchinson Twp. 146-147,151
Aubin Twp.
Pyrite 85,86
Aubin Twp. deposit 1 85
Aubin Twp. deposit 2 85
Aubin Twp. deposit 3 86
August Lake deposit
NTS 52P/4SE 211
Aumacho River Mines deposit
NTS 42E/5SW 112
Avenue Syndicate deposit
Begin, Hagey, Lamport & Haines Twp. 147
Baden Twp.
Hematite 78
Bad Vermillion (Seine Bay) deposit
NTS 52C/10NE 158
Balfour Twp.
Anthraxolite 18
Ball Twp.
Asbestos 194
Magnetite 194
Pyrite 194,195
Ball Twp. deposit 1 194
Ball Twp. deposit 2 194
Ball Twp. deposit 3 194
Ball Twp. deposit 4 194-195
Ball Twp. deposit 5 195
Bamoos Lake prospect
NTS 42D/16SW 107
Bannockburn Twp.
Asbestos 59
Barnes deposit
NTS 52A/10NW 143

Bar River Quarry
Laird Twp. 43
Barton Creek Mine
Beatty Twp. 70,80
Batchawana Bay deposit
Havilland Twp. 46
Bear Head Lake deposit
NTS 53C/13SE 219
Beatty Twp.
Asbestos 70
Magnetite 80
Serpentine 87
Talc 88
Beatty Twp. deposit 70,88
Beavis Lake deposit
NTS 52P/3NE 209-210,211
Beemer Twp.
Hematite 78
Pyrite 82
Beemer Twp. deposit 82
Begin Twp.
Graphite 147
Belford Creek
see Keevil deposit
Belford Twp.
Graphite 95,96
Pyrite 100,101
Bellevue deposit
Deroche & Vankoughnet Twp. 47
Benoit Twp.
Asbestos 69
Bismuth 73
Berg River deposit
NTS 52I/11NW 185
Berin Creek deposit
NTS 42D/16NE 106-107
Bernhardt Twp.
Magnetite 80
Pyrite 81,83
Bernhardt Twp. deposit 1 80,83
Bernhardt Twp. deposit 2 81
Best Twp.
Pyrite 10
Silica 11
Biederman deposit
Cairo Twp. 73
Big Beaver House Complex
NTS 53A/13NW 214
Big Dan Mine
Strathy Twp. 9
Big Island deposit
NTS 53H/13SW 226
Big Levack property
Levack Twp. 21,30,38
Big Six prospect
NTS 52B/13SE 150
Big Trout Lake deposit 1
NTS 53H/12NW 225
Birch Island Quarry
Whitefish Indian Reserve No.4 31-32
Bird deposit
see Canadian Johns-Manville deposit
Bird-Ginn deposit (Canadian Johns-Manville deposit)
Garrison Twp. 13
Biron Bay Gold Mines deposit
Ball Twp. 194
Bish Bay deposit
Dorothea Twp. 180
Bish Bay - West Bay deposit
Dorothea Twp. 176
Black Bay Peninsula deposit
NTS 52A/8NW 133
Blackbear River deposit
NTS 53J/3NE 227
Black River deposit
Carr Twp. 83,87
Black Twp.
Graphite 75-76
Blamey Twp.
Graphite 52
Pyrite 56
Blank Lake
see Kentron Lake deposit
Blezard Mine
Blezard Twp. 20,24,28,33,37
Blezard Twp.
Cobalt 20,22
Iridium 24,25,26
Selenium 28,29,30
Sulphur 33,34,35
Tellurium 37,38
Bloom Lake group
see Gowganda Silver Mines
Blue Lake deposit
Suni Twp. 125
Bluett Lake deposit
McIlraith Twp. 168
Bochawna (Vein Lake) deposit
NTS 52O/11SE 208
Boiling Sand River deposit
NTS 52I/6NW 184
Bonheur Quarry
Burk Twp. 175
Borden Lake deposit
Cochrane Twp. 56
Borden Twp.
Pyrite 56
Borden Twp. deposit 56
Boundary Mine
Levack Twp. 21,25,29,34
Bourdon deposit
Morrisette Twp. 14
Bowell Twp.
Cobalt 21
Selenium 30
Tellurium 38
Bowker deposit
McTavish Twp. 134,143

Bowman Mine
Nakhodas Mining Co.
Deloro Twp. 66
Bradshaw Twp.
Stone 175
Brett Lake deposit
Van Hise Twp. 60,62
Bridges Twp.
Mica 167
Niobium 167
Tantalite 170
Tourmaline 171
Brownridge Twp.
Lithium 166
Tourmaline 171
Bruce Staines (Sapawe Lake) prospect
McCaul and Hutchinson Twp. 147,149,151
Bucke Twp.
Stone 11
Buda deposit
Goldie Twp. 141-142
Burk Twp.
Stone 175
Burley Lake deposit
NTS 52O/6SW 206
Burrex deposit
NTS 52B/14NW 151
Burt Twp.
Pyrite 82
Burt Twp. deposit 82
Bury-Highstone Lakes deposit
NTS 52J/6NW 188,189
Bushy Twp.
Pyrite 100
Bushy Twp. deposit 100
Butler deposit
Keevil Mining Group Ltd. property 37
Hellyer Twp. 55, 56
Butler Lake deposit
Rennie Twp. 92
Butler Quarries
Bradshaw Twp. 175
Caddy Creek deposit
Johns Twp. 104
Cairo Twp.
Asbestos 59
Barite 73
Hematite 63
Calvert Twp.
Asbestos 72
Cam (Bear Head Lake) deposit
NTS 53C/13SW 220
Cam Group A deposit
NTS 53C/13SW 220
Camp & Kellar Island deposits
NTS 52I/10SW 184
Campement D'Ours Island deposit
NTS 41J/5SW 43
Camp Lithium deposit
NTS 42E/5NW 110
Canadian Addicks deposits
NTS 52B/13NE 146,150
Canadian Copper Co.
see Naughton Quarry
Canadian Johns-Manville deposit
NTS 42D/16NE 106
Canadian Johns-Manville deposit
Mann Twp. 72,74
Bird deposit
Warden Twp. 69-70
Centre Creek group
Munro Twp. 70-71
Stairs group
Warden Twp. 70
see Bird-Ginn deposit; Ghost Mountain Group
Canadian Magnesite Mines deposit
Adams Twp. 79
Deloro Twp. 79,87
Canadian Nickel Co. deposit
Blamey Twp. 52,56
Cunningham Twp. 52,56
Eisenhower Twp. 51,56
Greenlaw Twp. 51
Lackner Twp. 53
Rollo Twp. 53-54
Swayze Twp. 54
Canadian Nickel Co. deposits
Eldorado Twp. 80,83
Canadian Superior Expl. deposit
Menorah Mines
Carman Twp. 75
Canfield Twp.
Gypsum 119
Canico deposit
Keith Twp. 92,98
Canico deposit 1
NTS 52F/4NE 164
Canico deposit 2
NTS 52F/4NE 167
Canico deposit
NTS 52O/8SE 207
Canico (Atikokiwam Lake) deposit
NTS 52P/4SW 209,212
Canico (Bucheski Lake) deposit
NTS 53A/10NE 215
Canico (First Loon Lake) deposit
NTS 52P/12SW 209,211,213
Canico (Napier Lake) deposit
NTS 52P/11SW 211,212
Canico (Peeagwon Creek) deposit 1
NTS 53A/9SE 215
Canico (Peeagwon Creek) deposit 2
NTS 53A/10NE 215
Canico (Peeagwon Creek) deposit 3
NTS 53A/10SW 215
Canico (Peeagwon Creek) deposit 4
NTS 53A/10SE 215
Canico (Sennett Lake) deposit
NTS 53A/15SW 216
Canico (Snowflake Lake) deposit
NTS 52P/11SE 211,212

Cape Gargantua
Alarie Twp.
Hematite 48
Capre prospect
Capreol Twp. 20,28,37
Capreol Twp.
Cobalt 20
Selenium 28
Tellurium 37
Caral deposit
NTS 52H/8NE 178
Carb Lake Complex
NTS 53J/13SW 227
NTS 53K/16SE 228
Card Lake Copper Mines deposit
NTS 52O/11SE 204,208
Cargill Complex
NTS 42G/07SE
Continental Copper Mines 117,118
Caribou Bay deposit
NTS 52I/11SW 185
Caribou Lake South deposit
NTS 53B/9NW 218
Carlson deposit
Benoit Twp. 73
Carman Twp.
Asbestos 67,68
Graphite 75
Carnegie Twp.
Graphite 76,77
Pyrite 83,86
Carney Twp.
Magnetite 104,105
Carney Twp. deposit 1 104
Carney Twp. deposit 2 105
Carney Twp. deposit 3 105
Caron Creek deposit
NTS 52P/4SW 212
Carpenter Twp.
Peat 155
Carr Twp.
Pyrite 83
Serpentine 87
Carrignan deposit
NTS 52B/5NW 145
Carroll Twp.
Gypsum 119
Carrot Lake deposit
NTS 42E/5SW 113
Carscallen Twp.
Asbestos 66
Carscallen Twp. (south-central) deposit 66
Cartier deposit
Venturi Twp. 39
Carty Twp.
Magnetite 97
Pyrite 99
Carty Twp. deposits 97,99
Case deposit
Dex deposit
Steele Twp. 16
Cassels Twp.
Pyrite 10
Quartz 11
Casson Twp.
Asbestos 40
Barite 40
Bismuth 40
Cobalt 41
Hematite 42
Limonite 43
Casson Twp. deposit 43
Cathcart Twp.
Peat 173
Cathcart Twp. Bog 173
Central Patricia Gold Mine
Connell Twp. 203,207
Chabanel Twp.
Arsenic 103
Asbestos 103
Chambers Twp.
Pyrite 10
Chappais Lake deposit
NTS 52I/8NW 183
Chara Lake deposit
Kowkash Twp. 126
Charlesbois-Cristakos deposits
Marsh Twp. 98,99
Cheepash River deposit
Roebuck and Maher Twp. 129
Chester Twp.
Bismuth 60
Chewett Twp.
Niobium 98
Pyrite 56
Chewett Twp. deposit 56
Chicago Mine
Drury Twp. 18,27,32,35
Chipman Lake deposits
O'Meara Twp. 115
Chrome Lake deposit
NTS 52H/13NE 176
Chromium Mining and Smelting deposit
NTS 52H/14NW 177
Cipway deposit
Osway Twp. 54
Clarabelle Pit
Snider Twp. 19,23,27,32,36
Clay Twp.
Magnetite 118
Clay Twp. deposit 1 118
Clay Twp. deposit 2 118
Clergue Twp.
Asbestos 71
Cloud River deposit
Crooks Twp. 133
Coal Creek
see Algocen deposits
Cochenour Explorations deposits
Ball Twp. 194
Cochenour Willans deposit
NTS 52O/3NE 202,204

Cochenour Willans (Johnston Bay) deposit
NTS 52O/3SE 205
Cochrane deposit
Otto Twp. 78
Cochrane Twp.
Pyrite 56
Cockeram Twp.
Marl 180
Cold Spring Quarry
Pic Twp. 108
Coldwell Twp.
Nepheline 108
Coleman Mine
Levack Twp. 21,25,29,34,37
Cominco deposit
NTS 52O/3SE 200,205
Conacher Twp.
Peat 149
Conduc deposit
Carnegie Twp. 76,83
Conmee Twp.
Asbestos 136
Conmee Twp. deposit 136
Connaught Twp.
Calcite 61
Magnetite 63
Pyrite 63
Connaught Twp. deposit 63
Connell Twp.
Magnetite 203
Pyrite 207
Connell Twp. deposit 207
Consolidated Canorama deposit
McArthur Twp. 65
Consolidated Morrison deposit
NTS 42I/15SE 120
NTS 52J/13NE 187
Consolidated Shunsby Mines
see Canadian Nickel Co. deposit
Continental Copper Mines
see Cargill Complex
Conway deposit
NTS 52H/8NE 178
Conway (Norland & No.4) deposits
NTS 42E/5NW 110-111
Conwest deposit
Ponsford Twp. 201,207
Conwest (Horley Lake Southwest) deposit
NTS 53A/9NW 214
Conwest (Horley Lake West) deposit
NTS 53A/9NW 215
Conwest (Peeagwon Creek) deposit 1
NTS 53A/10SW 215
Conwest (Peeagwon Creek) deposit 2
NTS 53A/10SE 215
Cooper deposit
Neebing Twp. 138
Coppell Twp.
Graphite 53,54
Coppell Twp. (NW) deposit 53
Coppell Twp. (SW) deposit 54
Copper Cliff Mine
McKim Twp. 19,23,27,32,36
Copper Cliff North Mine
McKim Twp. 19,27,32,36
Copper Cliff No.1 Mine
Snider Twp. 19,23,28,32,36
Copper Cliff No.2 Mine
McKim Twp. 19,23,28,33,36
Copper Cliff South Mine
Snider Twp. 19,23,28,33,36
Copper Hook Lake (Addicks) deposit
NTS 52B/13NE 150
Copper Queen deposit
Morin Twp. 42
Coral Rapids deposit
Pitt Twp. 119
Corless Twp.
Magnetite 196
Pyrite 197
Corless-Knott Twp. deposit 197
Corless-Skinner Twp. deposit 196,197
Coste Island deposit
NTS 52E/7NE 161
Cote Twp.
Pyrite 85
Cote Twp. deposit 85
Coubran Lake prospect
NTS 42D/16SW 107-108
Coulson Twp.
Graphite 76
Coulson Twp. (East) deposit 76
CPR (Hawk Lake) Quarry
MacNicol Twp. 169-170
CPR Quarry
Ignace Twp. 175
Crane deposit
Michipicoten Tungsten deposit
Franchere Twp. 49
Crawford Lake deposit
see South Hanrahan Lake deposit
Crawford Twp.
Pyrite 86
Crawford Twp. deposit 86
Crean Hill Mine
Denison Twp. 18,23,27,32,35
Creighton Mine
Snider Twp. 19,23,28,33,36
Creighton Twp.
Cobalt 19
Iridium 24
Selenium 28
Sulphur 33
Tellurium 36
Cromarty (Acme option) deposit
Tully Twp. 84,88
Cromarty (Nickel Offsets) deposit
Tully Twp. 76-77

Crooks Twp.
Amethyst ... 133
Barite ... 136,137
Calcite ... 139,140
Clay ... 141
Crooks Twp. deposit 1 ... 137,139
Crooks Twp. deposit 2 ... 139-140
Crozier Twp.
Peat ... 155-156
Cryderman (Ravena) deposit
Penhorwood Twp. ... 92
Cuniptau deposit
Best Twp. ... 11
Cunningham Twp.
Graphite ... 51,52
Magnetite ... 55
Pyrite ... 56
Curran Twp.
Clay ... 159
Curtin Twp.
Silica ... 31
Cyr deposit
NTS 52B/5NW ... 145,147
D'Alton Lake deposit
NTS 52I/10SW ... 184-185
Davidor deposit
Benoit Twp. ... 69
Davis Lake deposit
McEvay Twp. ... 81
Deloro Twp.
Asbestos ... 66,67
Magnesite ... 79
Talc ... 87
Demarco claims
South group
Cairo Twp. ... 59
Denison deposit
Coldwell Twp. ... 108
McCoy Twp. ... 108
Denison (Pic Island) deposit
NTS 42D/10NE ... 108
Denison Twp.
Cobalt ... 18,19
Iridium ... 23
Selenium ... 27
Sulphur ... 32
Tellurium ... 35,36
Dent Twp.
Tin ... 197
Denyes Twp.
Graphite ... 53
Hematite ... 54
Pyrite ... 56
Deroche Twp.
Hematite ... 45,46
Silica ... 47
Deroche Twp. deposit ... 46
Despard deposit
NTS 52I/8NE ... 183
DesRosiers Twp.
Bismuth ... 50
Magnetite ... 55
Pyrite ... 57
Devil's Warehouse Island Deposit
Alarie Twp. ... 48,49
Dex deposit
see Case deposit
Docker Twp.
Stone ... 170
Dog Lake deposit
Fowler Twp. ... 141
Dome Exploration deposit
NTS 52F/8NW ... 164
Dominion Gulf deposits
Clergue Twp. ... 71
Langmuir Twp. ... 68
Dominion Gulf deposit
see Lightning Mountain deposit
Dominion Mine
Laird Twp. ... 46
Dominion Trap Rock Quarry
Plummer Additional Twp. ... 44
Dorothea Twp.
Asbestos ... 176
Pyrite ... 180
Doucett Twp.
Magnetite ... 104
Doucett Twp. deposits ... 104
Doughty deposit
Kincaid Twp. ... 49
Drayton Twp.
Pyrite ... 189
Drayton Twp. deposit ... 189
Drope Twp.
Pyrite ... 168
Drope Twp. deposit ... 168
Drum Lake deposit
NTS 52O/3NE ... 204
Drum Lake East deposit
NTS 52O/3NE ... 205
Drum-McVean Lakes deposit
NTS 52O/3NE ... 205
Drury Twp.
Cobalt ... 18
Iridium ... 23
Selenium ... 27
Sulphur ... 32
Tellurium ... 35
Duffell Lake deposit
NTS 52O/2NW ... 199-200,204
Duffell Lake West deposit
NTS 52O/2NW ... 204
Duncan Lake deposits
Knight Twp. ... 62,63
Dunning deposit
NTS 42E/5NW ... 111
Dupont deposit
Penhorwood Twp. ... 90
Dyment Lake deposit
Denyes Twp. ... 54

Dymond Twp.
Lime 10
Dymond Twp. deposit 10
Dzuba Mine
McTavish Twp. 134
Dzuba, N. Mine
McTavish Twp. 134
Dzuba, P. Mine
McTavish Twp. 134
Eagle Lake deposit
NTS 52F/11NW 169
Eagle Lake Quarry (Grace Mine)
NTS 52F/11NW 169,170
Earngey Twp.
Pyrite 197
Eastern Mining & Smelting deposit
NTS 52L/7NW 192
East Georgia Lake - Esker Bay deposit
NTS 42E/5SW 113
East Pashkokogan Lake deposit
NTS 52J/16NE 187,188
Eayrs Lake deposit
NTS 52A/13NE 139
Ebbitt Twp.
Gypsum 119
Eby claim
Scott claim
Lawson Twp. 59
Eby Twp.
Magnetite 80
Pyrite 82
Eby Twp. deposit 80,82
Echo Twp.
Bismuth 163-164
Pyrite 168
Echo Twp. deposit 168
Edward Island deposit 1
NTS 52A/7NE 140
Edward Island deposit 2
NTS 52A/7SE 140
Edward Island prospect
NTS 52A/7SE 136
Edwards Lake
see Canadian Nickel Co. deposit
Edwards Twp.
Graphite 78
Magnetite 81
Pyrite 87
Edwards Twp. deposit 1 78,87
Edwards Twp. deposit 2 81,87
Edwards Twp. deposit 3 87
Eisenhower Twp.
Graphite 51
Pyrite 56
Eldorado Twp.
Magnetite 80
Pyrite 83
Ellen Pit
Denison Twp. 18,23,27,32
Elliot's Brickyard
Korah Twp. 45
Elsie Mine
McKim Twp. 22,25,30,34,38
Emo deposit *
Lash Twp. 152
English Twp.
Magnetite 80
Pyrite 82
English Twp. deposit 1 80,82
English Twp. deposit 2 82
Enterprise Mine
McTavish Twp. 134
Entwine Lake deposit
NTS 52F/2NE 167
Ermine Twp.
Magnetite 104,105
Ermine Twp. deposit 1 104
Ermine Twp. deposit 2 105
Esker Bay
see East Georgia Lake deposit
Evans Mine
Snider Twp. 19,24,28,33,36
Ewart Twp.
Cobalt 160
Extender Minerals of Canada Mine
Yarrow Twp. 60
Factor Twp.
Graphite 172-173
Pyrite 174
Factor Twp. deposit 1 172-173,174
Factor Twp. deposit 2 174
Falconbridge
see Medicine Lake deposit
Falconbridge deposit
Huffman Twp. 50-51,55
NTS 52J/7NW 188
Falconbridge East Mine
Falconbridge Twp. 20,24,28,33
Falconbridge Mine
Falconbridge Twp. 20,24,29,33
Falconbridge Twp.
Cobalt 20,21
Iridium 24
Selenium 29
Sulphur 33
Tellurium 37
Falconbridge Twp. deposit 21,29,37
Falcon Island deposit
NTS 52E/7SW 160,161
Falcon Lake (Motsen Group) deposit
NTS 52I/8NE 183-184
Fallis Twp.
Peat 149
Fallon Twp.
Hematite 78
Pyrite 82
Farrington Twp.
Magnetite 154
Titanium 158
Farr's Quarry
Bucke Twp. 11

Fawthrop - Senior Lakes deposit
NTS 52O/4NW 205
Fayolle & Fletcher deposits
NTS 52I/11SE 185
Fecunis Mine
North Mine
Levack Twp. 21,25,29,34
Finan Twp.
Nepheline 105
Fin-Lan (Nic-Cop) deposit
NTS 52B/13NE 150
Finmark deposit
Forbes Twp. 141
First Loon Lake deposit
NTS 52P/12SW 213
Fishbasket Lake deposit
NTS 43D/12NW 130
Fitzpatrick Creek deposit
Acton Twp. 105
Fleck Twp.
Magnetite 118
Fleck Twp. deposit 118
Fletcher deposit
see Fayolle deposit
Fluor Island deposit 1
NTS 52A/9NE 133
Fluor Island deposit 2
NTS 52A/9NE 140
Foleyet deposit
Foleyet Twp. 93,98
Foleyet Twp.
Graphite 93
Pyrite 98
Foleyet Twp. deposits 98
Forbes Twp.
Clay 141
Forester Lake deposit
NTS 53B/8NE 217
Forester Lake Southeast deposit
NTS 53B/8NE 217
Forgie Twp.
Stone 161-162
Forks River deposits
Langmuir Twp. 68
Fort Frances deposit
McIrvine Twp. 152
Fort Hope deposit
NTS 52P/9SE 212
Foster deposit
NTS 42E/5NW 111
Fowler Twp.
Clay 141
Foy Offset property
Bowell Twp. 21,30,38
Franchere Twp.
Powellite 49
Frechette Island deposit
Frechette Island, North Channel
Lake Huron 44
Frecheville Twp.
Asbestos 13
Magnetite 15
Pyrite 15
Frecheville Twp. deposit
Dominion Gulf deposit 15
Fredart Lake deposit
NTS 52K/15NW 191
Freeborn Twp.
Bauxite 145
Goethite 147
Hematite 148
Pyrite 150,151
Freeport - Beth deposit
NTS 52F/4NE 164-165,167
Fripp Twp.
Asbestos 65
Pyrite 84
Frobel Lake deposit
Casson Twp. 40,41
Frood Mine
McKim Twp. 22,26,30,34,38
Frond Lake Mining deposit
NTS 52P/9SW 212
Fryatt Twp.
Magnetite 117
Fryatt Twp. deposit 117
Fryingpan Lake deposit
Lisgar Twp. 96,100
Furlonge Lake (Drummond) deposit
NTS 52F/3SW 167
Garlarneau Mine
NTS 42E/4NE 110
Galata deposits
Langmuir Twp. 68
Gargoyle Lake deposit
NTS 52G/3SE 172
Garnet Gold Mines deposit
Keith Twp. 93
Garnet Twp.
Graphite 52-53
Pyrite 56
Garnet Twp. deposit 53
Garrison Twp.
Asbestos 13
Garson Mine
Garson Twp. 20,24,29,33,37
Garson Twp.
Cobalt 20
Iridium 24
Selenium 29
Sulphur 33
Tellurium 37
Geary Twp.
Pyrite 85
Serpentine 87
Geary Twp. deposit 85,87
Geikie Lake deposits
Geikie Twp. 65
Geikie Twp.
Asbestos 65

Geneva Lake prospect
Hess Twp. 26
Genoa Twp.
Asbestos 50
Chromite 50
Magnetite 55
George Point deposit
Sibley Twp. 140
George Point Quarry
Sibley Twp. 144
Georgia deposit
NTS 42E/5SW 113
Gertrude Mine
Creighton Twp. 19,24,28,33,36
Ghost Mountain Group
Canadian Johns-Manville deposit
Harker Twp. 13
Gibbard Twp.
Peat 149,150
Gibralter Quarry
Shedden Twp. 44
Giles deposit
NTS 42E/5NW 111
Ginn deposit
Rennie Twp. 99
Glen Echo deposit
NTS 52L/7SE 192
Glenn deposit
NTS 52I/10SW 184
Glenorchy deposit
NTS 52C/16SW 152
Godfrey Twp.
Pyrite 82-83
Godfrey Twp. deposit 82-83
Godson Twp.
Asbestos 163
Magnetite 166
Godson Twp. deposit 1 163
Godson Twp. deposit 2 166
Goldie Twp.
Feldspar 141-142
Goldstar deposit
Denyes Twp. 53,56
Goodall Twp.
Asbestos 196
Pyrite 197
Goodall Twp. deposit 1 196
Goodall Twp. deposit 2 197
Gordon Coal deposit
Balfour Twp. 18
Goschen Twp.
Silica 31
Gould Copper Mine deposit
Gould Twp. 41
Gould Twp.
Hematite 41,42
Governor deposit
NTS 52P/2NW 209
Gowagamak Lake deposit
Heenan Twp. 56-57
Gowganda Lake property
Milner Twp. 61,62
Gowganda Silver Mines
Bloom Lake group
Haultain Twp. 61
Gowan Twp.
Pyrite 84
Gowan Twp. deposit 84
Grace Mine
see Eagle Lake Quarry
Grain Twp.
Magnetite 107
Graniteboss-Jacknife-Kaminiskag Lakes deposit
NTS 52O/6SE 203,206
Grassy Portage Bay deposit
Watten Twp. 155,157
Great Lakes deposit
Pardee Twp. 140-141
Green Lake deposit
Otter Twp. 42
Greenlaw Twp.
Graphite 51,52
Magnetite 55
Pyrite 55,56
Greenmantle Lake deposit
NTS 52P/3SW 210,211
Green Point deposit
NTS 52G/15NE 172
Greenwater Lake deposit
NTS 52B/9SW 152
Greenwich Lake deposit
NTS 52A/15SW 143
Gresky (Bluejay Lake Group) deposit
NTS 52H/3SE 178
Gresky (Fossil Lake Group) deposit
NTS 52H/2SW 177
Gresky (Shillabeer Lake Group) deposit
Cockeram Twp. 180
Habel Twp.
Clay 121-122
Kaolin 122
Lignite 122
Silica 123
Hagey Twp.
Chromite 146
Cobalt 146
Graphite 147
Pyrite 150
Haines Twp.
Graphite 147
Halkirk Twp.
Apatite 152
Magnetite 154
Pyrite 156
Rutile 157
Titanium 158
Halkirk Twp. deposit 153,157
Halliday Twp.
Asbestos 58
Graphite 62
Halliday Twp. (North) deposit 62-63

Halonen deposits
Yesno Twp. 106,107
Hammerton Lake deposit
NTS 52O/5NE 202,206
Haney Twp.
Magnetite 117
Haney Twp. deposit 117
Hardy Mine
Levack Twp. 21,25,29,34,37
Harker Twp.
Asbestos 13
Harley Twp.
Stone 12
Harley Twp. deposit 12
Harris Twp.
Stone 11
Harris Twp. deposit 11
Harrison (Cobble Lake) deposit
Bridges Twp. 167,170,171
Harrow Twp.
Magnetite 43
Harrow Twp. deposit 43
Hartman Lake deposit
Hartman Twp. 165
Hartman Twp.
Graphite 165
Hastings - Moffat deposit
Maisonville Twp. 78
Haultain Twp.
Calcite 61
Havilland Twp.
Manganese 46
Hawkshaw - Derrer deposit
Deroche Twp. 45
HBOG deposit
NTS 52F/4NE 165,167
NTS 52N/7SE 196
Headway - Coulee deposit
NTS 42L/4SE 126-127
Headway Red Lake deposit
NTS 42L/4SE 124,127
Hebner Lake deposit
NTS 42M/3NW 128
Hedman Mine
Warden Twp. 69
Heenan Twp.
Pyrite 56-57
Helfrick deposit
Otter & Casson Twp. 40,41
Hellyer Twp.
Magnetite 55,97
Pyrite 56,99
Hellyer Twp. deposit 97,99
Helpert deposit
Zavitz Twp. 82
Henrickson - Oboshkegan Lakes deposit
NTS 42L/3NW 124,126
Herman Lake deposit
Finan Twp. 105
Herron Point deosit
NTS 52A/9SW 133
Hess Twp.
Magnetite 26
Hewitson Quarry
McIntyre Twp. 144
High Island deposit
High Island
North Channel of Lake Huron 38-39
Highway 101 deposit
Penhorwood Twp. 92,94
Hislop Twp.
Asbestos 70
Talc 88
Hislop Twp. deposit 88
Hislop Twp. (North) deposit 70
Hobson Twp.
Lime 119
Hollinger Consolidated deposit
Fripp Twp. 65,84
Hollinger deposit
Macdiarmid Twp. 72
Hollinger Mines Ltd.
Moncrieff Twp. 22
Holloway Twp.
Asbestos 13
Honsberger-McVittie deposit
Baden Twp. 78
Hopkins deposit
Dorothea Twp. 180
Hopkins Twp.
Magnetite 118
Hopkins Twp. deposit 118
Horseshoe Lake West deposit
NTS 53B/2NW 217
Horwood Mine
Penhorwood Twp. 101
Horwood Twp.
Pyrite 99
Horwood Twp. deposit 99
Hotham Island deposit
Hotham Island North Channel Lake
Huron 44
Hough Lake deposit
NTS 52J/7NW 188,189
Howells Twp.
Magnetite 118
Howells Twp. deposit 118
Hudson Bay Exploration deposit
NTS 52P/7SE and 8SW 212
Huffman Twp.
Graphite 50-51
Pyrite 55
Hutchinson Twp.
Cobalt 146,147
Magnetite 149
Pyrite 151
Hutt Twp.
Asbestos 65-66
Graphite 75
Pyrite 82

Hymers deposit
O'Connor Twp. 138
Ignace Twp.
Stone 175
INCO deposit
Carnegie Twp. 76
Kingsmill Twp. 74,85
Lee Twp. 75
Otto Twp. 74-75
see also Lawson Quarry
INCO (Agutua Arm) deposit
NTS 53B/14SE 217
INCO (Big Trout Lake) deposit
NTS 53H/13SW 226
INCO (Blackwater Bay) deposit
NTS 53G/5NW 223
INCO (Nemeigusabins Lake) deposit 1
NTS 53H/5NW 225
INCO (Nemeigusabins Lake) deposit 2
NTS 53H/12SW 225
INCO (53G/6NE) deposit
NTS 53G/6NE 223
INCO (Severn River) deposit
NTS 53G/5SW 223
INCO (Thurston Bay) deposit
NTS 53B/9NW 217
Indian Reserve 52
Shale 143
Initiative Explorations deposit
NTS 52O/12SE 199,208
International Lithium (Wheeler-Hanberg) deposit
NTS 52B/5SW 148
International Minerals & Chemicals deposit
NTS 53A/13NW 216
Intola deposit
McIntyre Twp. 142
Irving Twp.
Asbestos 103-104
Island deposit
NTS 42E/5SW 114
Ivanhoe River
see Area Mines deposit
Ivanhoe Twp.
Graphite 93
Pyrite 98
Jackfish Lake (Vinall) deposit
NTS 52C/13NE 152,155,157
Jackfish - Middleton deposits
Grain & Walsh Twps. 107
Jack Post claims
see Mallard Lake deposit
Jackpot deposits
NTS 42E/5SW 114
Jackson Twp.
Cobalt 41
James Bay Mining deposit
NTS 52O/8NE 201,207
Jamieson property
Robb Twp. 88-89
Jehann Lake deposit 1
Penhorwood Twp. 90,94,99
Jehann Lake deposit 2
Penhorwood Twp. 94
Jessop property
Genoa Twp. 55
Jessop Twp.
Pyrite 84
Jessop Twp. deposits 84
Joe Lake deposit
Wisner Twp. 22,31,38
Johns Twp.
Magnetite 104
Johnson Mine
McTavish Twp. 133
Johnston Bay East deposit
NTS 52O/3SE 205
Jonsmith deposit
DesRosiers Twp. 50
Jordan Island deposit
Alarie Twp. 48,49
Jordan Twp.
Pyrite 168
Kaiashkomin Lake deposit
Zealand Twp. 171
Kakagi Lake deposit 1
NTS 52F/4NW 163
Kakagi Lake deposit 2
NTS 52F/4NW 166,167
Kakagi Lake deposit 3
NTS 52F/4NW 170
Kalbrook deposit
Reeves Twp. 94
Kaolinite
Ryan Twp. 46
Karies deposit
McTavish Twp. 134
Kavula property
Tisdale Twp. 72
Keith Twp.
Graphite 92,93,94
Magnetite 97
Pyrite 98,99
Keith Twp. deposit
Keith Twp. 97
Keevil deposit
Carnegie Twp. 77
Eby Twp. 80
Mahaffy Twp. 77,85
Nova Twp. 96,101
Keevil (Belford Creek) deposit
Belford Twp. 95,100
Keevil (East-Central Belford Twp.) deposit
Belford Twp. 95-96
Keevil (properties 20 and 21) deposits
Watson Twp. 97,101
Keevil Mining Group Ltd.
Property 37
see Butler deposit
Kekekwa Lake deposit
NTS 52F/7NW 166

Keni Lake deposit
NTS 52H/4SE ... 178
Kennco deposit
NTS 52F/4NE ... 165,167
Kenogaming Twp.
Asbestos ... 66,91
Kenogaming Twp. deposits ... 66,91
Kenogamisis deposit
Kilkenny Twp. ... 179
Kentron - Blank Lakes deposit
NTS 42E/1NW ... 115
Kerr claim
Otter Twp. ... 40,41
Kerrs Twp.
Asbestos ... 69
Keshkabuon Island Shale
NTS 52A/10SW ... 144
Kidd Creek Mine
Kidd Twp. ... 88
Kidd Twp.
Pyrite ... 83
Tin ... 88
Kidd Twp. deposit ... 83
Kilkenny Twp.
Lithium ... 179
Killraine Twp.
Fluorite ... 107
Killraine Twp. deposit ... 107
Kincaid Twp.
Manganese ... 49
Kingsmill Twp.
Chromite ... 74
Pyrite ... 85
Kingsmill Twp. deposit
Kingsmill Twp. ... 85
Kipling Twp.
Clay ... 121
Kaolin ... 122
Lignite ... 122
Silica ... 123
Kippen Lake deposit
NTS 53G/5SW ... 223
Kirby deposit
Vankoughnet Twp. ... 45
Kirkwood Mine
McConnell Mine
Garson Twp. ... 20,24,29,33,37
Kitchener Twp.
Quartz ... 26
Knight Twp.
Cobalt ... 62
Hematite ... 63
Knott Twp.
Pyrite ... 197
Korah Twp.
Clay ... 45
Koshman deposit
NTS 42E/6NW ... 115
Kosowy - Leduchowski deposit
Webb Twp. ... 164,166
Koval - Ohman prospect
NTS 52O/7SE ... 201,206
Kowkash Twp.
Marl ... 125,126
Kram - Glowacki deposit
Langlois Twp. ... 55
Kukatush (Northeast Keith Twp.) deposit
Keith Twp. ... 94,99
Kukatush (Palomar Lake) deposit
Keith Twp. ... 93,98
Labyrinth Bay deposit
NTS 52E/10SW ... 160,161,162
Lackner Twp.
Graphite ... 53
Ladouceur claim
Hislop Twp. ... 88
Laird Twp.
Silica ... 43,46
Lakatos - Cousineau deposit
Halkirk Twp. ... 156
Lake Ste. Marie deposit
Oboshkegan Twp. ... 126
Lake Superior Stone Syndicate deposit
McCoy Twp. ... 109
Lamotte Group
Langmuir Twp. ... 69
Lamplough Twp.
Magnetite ... 15
Lamplough Twp. deposit ... 15
Lamport Twp.
Graphite ... 147
Lamport - Lumbers deposit
Sewell Twp. ... 90
Lang Twp.
Magnetite ... 98
Pyrite ... 100
Titanium ... 101-102
Lang Twp. deposit 1 ... 98
Lang Twp. deposit 2 ... 98
Lang Twp. deposit 3 ... 100
Langlois Twp.
Pyrite ... 55
Langmuir Twp.
Asbestos ... 68,69
Barite ... 73
Langton Twp.
Pyrite ... 168
Langton Twp. deposit ... 168
Laroma Midlothian deposit
Midlothian Twp. ... 62
Lash Twp.
Clay ... 152
Lastheels Twp.
Niobium ... 49
Lawrence Quarry
NTS 52H/8NW ... 180-181
Lawson Quarry
Curtin Twp. ... 31
Lawson Twp.
Barite ... 59,60

Le Caron Twp.
Hematite ... 41
Magnetite ... 43
Le Caron Twp. deposit ... 41,43
Lee Lake deposit
NTS 52I/10SE ... 185
Lee Twp.
Graphite ... 75
Pyrite ... 81
Lee Twp. deposit ... 81
Lee Valley deposit
May Twp. ... 35
Lena Lake deposit
Chabanel Twp. ... 103
Leonard Twp.
Bismuth ... 60
Cobalt ... 62
Levack Mine
Levack Twp. ... 21,25,30,34,37-38
Levack Twp.
Bismuth ... 18
Cobalt ... 21
Iridium ... 25
Selenium ... 29,30
Sulphur ... 34
Tellurium ... 37,38
Levack West property
Levack Twp. ... 21,25,30,34,38
Lew deposit
NTS 42E/5NW ... 112
Libert Lake deposit
NTS 53B/9SW ... 217
Lightning Mountain deposit
Dominion Gulf deposit
Holloway Twp. ... 13
Lilypad Lake North deposit
NTS 52P/9NW ... 212
Lilypad Lakes (North Showing) deposit
NTS 52P/9NE ... 210,213
Lilypad Lakes (Southwest Showing) deposit
NTS 52P/9NW ... 210,213
Linklater (San Antonio) deposit
NTS 52I/10SW ... 182,186
Lisgar Twp.
Graphite ... 96
Pyrite ... 100
Lismore Twp.
Barite ... 137-138
Little Aylsworth Lake deposit
NTS 52G/9SW ... 173,174
Little Charon Lake deposit
NTS 42E/9SE ... 110
Little Stobie Mine
Blezard Twp. ... 22,26,30,35,38
Little Twp.
Asbestos ... 72
Little Twp. deposit ... 72
Lizar Twp.
Titanium ... 105
Lloyd Lake deposit
Midlothian Twp. ... 58
Lloyd Twp.
Pyrite ... 100
Lloyd Twp. deposit ... 100
Lobstick Island Quarry
Watten Twp. ... 157-158
Loch Erne - Andowan deposit
NTS 52B/9SW ... 147
Lockerby deposit
Denison Twp. ... 19,23,27,36
Lofquist - Maata deposit
Nipigon Twp. ... 138-139
Lomond Twp.
Magnetite ... 190
Pyrite ... 191
Lomond Twp. deposit ... 190
Lonebreast Bay deposit
NTS 52I/11SW ... 185
Longvack South Mine
Longvack Mine
Levack Twp. ... 21,25,30
Lost Lake deposit
NTS 52K/1SE ... 190,191
Louis Lake deposit
Oboshkegan Twp. ... 126
Loveland Twp.
Pyrite ... 84
Loveland Twp. deposits ... 84
Lowther Twp.
Lithium ... 117
Lucas Twp.
Pyrite ... 86
Lucas Twp. deposit ... 86
Luke Lake deposit
Hutt Twp. ... 65-66
Luke Lake group & Redstone River group
Hutt Twp. ... 75,82
Lundmark deposit
NTS 52H/3SE ... 180
Lun-Echo deposit
Brownridge Twp. ... 166
NTS 52H/8SW ... 179
NTS 52I/10SW ... 184
Lype Lake deposit
McMurray Twp. ... 48
Lysander deposit
Rennie Twp. ... 100
McAree Twp.
Pyrite ... 168
McAree Twp. deposit ... 168
McArthur Twp.
Asbestos ... 65
McBean deposit
NTS 53C/10SW ... 219
McBrien Twp.
Clay ... 121
Kaolin ... 122
Lignite ... 122
Silica ... 123

McCart Twp.
Asbestos ... 73
McCart Twp. deposits ... 73
McCaul Twp.
Cobalt ... 146,147
Magnetite ... 149
Pyrite ... 151
McClaskey deposit
McPhail Twp. ... 54
McCombe deposit
Jordan Twp. ... 168
McCombe deposit (Capital Lithium Mines)
NTS 52J/13NE ... 188
McConnell Mine
see Kirkwood Mine
McCool Twp.
Asbestos ... 71
McCool Twp. deposits ... 71
McCoy Twp.
Cerium ... 106
Nepheline ... 108
Niobium ... 108
Stone ... 109
Thorium ... 109
McCullagh Twp.
Pyrite ... 212
McCullagh Twp. deposit ... 212
Macdiarmid Twp.
Asbestos ... 72
Graphite ... 77
Pyrite ... 83,84
Macdiarmid Twp. deposit 1 ... 83
Macdiarmid Twp. deposit 2 ... 84
Macdiarmid Twp. (SE) deposit ... 77,84
McElroy Twp.
Asbestos ... 13
Bismuth ... 14
McElroy Twp. deposit ... 13
McEvay Twp.
Marl ... 81
McHenry Lake deposit
NTS 53K/2SW ... 228
McIlraith Twp.
Pyrite ... 168
McIntyre Twp.
Marl ... 142
Peat ... 143
Stone ... 144
McIrvine Twp.
Clay ... 152
McKellar Point
Crooks Twp. ... 136
McKim Mine
McKim Twp. ... 22,26,30
McKim Twp.
Cobalt ... 19,22
Iridium ... 23,25,26
Selenium ... 27,28,30,31
Sulphur ... 32,33,34,35
Tellurium ... 36,38
McKnight Twp.
Magnetite ... 117
McKnight Twp. deposit ... 117
MacLennan Twp.
Cobalt ... 20
Iridium ... 24
Selenium ... 28
Tellurium ... 37
McMurray Twp.
Magnetite ... 48
Niobium ... 49
McNaught Twp.
Apatite ... 50
Niobium ... 55
Thorium ... 57
MacNicol Twp.
Stone ... 169-170
McPhail Twp.
Hematite ... 54
McTavish Twp.
Amethyst ... 133,134,135
Barite ... 138
Hematite ... 142
Pyrite ... 143
McTavish Twp. deposit ... 135
McVicar Lake deposit
NTS 52O/11SW ... 203-204,207
McVicar Lake North deposit
NTS 52O/11SW ... 201,208
McVittie deposit
NTS 52H/8NE ... 179
McWatters deposit
Carman Twp. ... 67
Mabee Twp.
Magnetite ... 80
Mabee Twp. deposit ... 80
Mackenzie - Mann deposit
Freeborn Twp. ... 150
Maeck Twp.
Apatite ... 40
Cerium ... 41
Hematite ... 42
Lanthanum ... 42
Niobium ... 43
Titanium ... 43
Mahaffy Twp.
Graphite ... 77
Pyrite ... 85,86
Mahaffy Twp. deposit ... 86
Maher Twp.
Gypsum ... 129
Maisonville Twp.
Graphite ... 74
Hematite ... 78
Magnetite ... 79
Tellurium ... 88
Maisonville Twp. deposit ... 88
Maligne River deposit 1
NTS 52B/5NW ... 145
Maligne River deposit 2
NTS 52B/5NE ... 148

Mallard Lake deposit
Jack Post claims
Morrisette Twp. 15
Mallard Twp.
Graphite 50
Mandy Claim
Cassels Twp. 10,11
Mann Twp.
Asbestos 72
Chromite 74
Pyrite 86
Mann Twp. deposit 86
Manross Twp.
Soapstone 161
Talc 162
Mapes Johnston shaft
Mickle Twp. 60,62
Maple Lake deposit
Vankoughnet & Deroche Twp. 45
Markop Lake East deposit
NTS 53B/9SE 218
Marsh Twp.
Magnetite 98
Pyrite 99
Martin Lake deposit
Lawson Twp. 59-60
Martison Complex
NTS 42J/06SW 121,122
Mason-Wilcox deposit
Deroche Twp. 45
Massey Twp.
Pyrite 84
Massey Twp. deposit 84
Mathieu deposit
NTS 52G/3SE 173
Mattagami deposit
NTS 52G/15SW 172,174,175
Mavis Lake deposit
Brownridge Twp. 171
May Twp.
Talc 35
Meath Twp.
Asbestos 103
Medicine Lake (Falconbridge) deposit
Tustin Twp. 163,170,171
Meehan deposit
Wabigoon Twp. 165
Menorah deposit
Carman Twp. 67
Menorah Mines
see Canadian Superior Expl. deposit
Mespi deposits
Carman-Langmuir Twp. 68
Mextor deposit
NTS 52O/12NE 201-202,208
Michipicoten Tungsten deposit
see Crane deposit
Mickle Twp.
Bismuth 60
Calcite 61
Cobalt 62
Midlothian Twp.
Asbestos 58,59
Graphite 62
Pyrite 64
Midlothian Twp. deposit 64
Mildred Lake deposit
Chabanel Twp. 103
Mile Lake deposit
NTS 52F/10NW 169
Milestone deposit
Brownridge Twp. 166
Milk Lake deposit
Asmussen Twp. 151,152
Miller deposit
South Lorrain Twp. 9,10
Milner Twp.
Calcite 61
Cobalt 62
Mining Corporation deposit
Forneri group
South Lorrain Twp. 10
Minaki Mine
NTS 52L/2SE 192
Mining Location T142 deposit
O'Connor Twp. 138
Mining Locations T143 & T144 deposit
O'Connor Twp. 138
Mink Lake
see Canadian Nickel Co. deposit
Misehkow River (Sturdy Mines) prospect
NTS 52P/4NE 209,210,211
Missinaibi Lake deposit
Lang Twp. 101-102
Mitchell Twp.
Pyrite 197
Mitchell - Earngey Twp. deposit 197
MNW deposit
NTS 52H/1NE 176,178
Moberly Twp.
Magnetite 80-81
Pyrite 85
Moberly Twp. deposit 80-81,85
Moncrieff Twp.
Fluorite 22
Moncrieff Twp. deposit 22
Mondoux deposit
McElroy Twp. 14
Montcalm Twp.
Pyrite 100
Montcalm Twp. deposit 100
Montgomery Lake deposit 1
Penhorwood Twp. 90,97,99
Montgomery Lake deposit 2
Penhorwood Twp. 95
Moody Twp.
Asbestos 73
Moore Creek deposit
Bucke Twp. 11
Moore Lake deposit
Yeo Twp. 51

Moosehorn Lake (Noranda Mines) deposit
Watten Twp. 156
Moose River (Murray Island) deposit
Canfield & Carroll Twp. 119
Moose River (Wait Island) deposit
Ebbit Twp. 119
Moosetegon Lake deposit
NTS 52O/3NW 202,204
Moosetegon Lake South deposit
(Bamaji Uranium Occurrence) (No.I Showing)
NTS 52O/3NW 208
Moran - Ferguson deposit
Deroche Twp. 46
Moray Lake deposit
Zavitz Twp. 66
Morgan deposit
Midlothian Twp. 58-59
Morin Twp.
Hematite 42
Morrisette Twp.
Barite 14
Graphite 14
Pyrite 15
Morrison (Wallace) deposit
Watten Twp. 156
Morton Lake deposit
Taylor claims
Kitchener Twp. 26
Mosambik Lake deposit
Mosambik Twp. 104
Mosambik Twp.
Lithium 104
Moshkinabi Lake deposit
Roberta Twp. 116
Mount McKay Shale
Indian Reserve 52 143
Mowbray Twp.
Magnetite 118
Mowbray Twp. deposit 118
Mulcahy Twp.
Pyrite 192,193
Mulcahy Twp. deposit 1 192
Mulcahy Twp. deposit 2 193
Multi-Minerals deposit
McNaught Twp. 50,55,57
Munro Lake deposit
Speight Twp. 61,62
Munro Mine
Munro Twp. 71
Munro Twp.
Asbestos 70-71
Munro Twp. deposits 71
Murky Fault deposits
Connaught Twp. 61,63
Murray (Brunette) deposit
Watten Twp. 156
Murray Mine
McKim Twp. 22,26,30,35,38
Muskego Lake deposit
Ivanhoe Twp. 93,98
Muskego Twp.
Pyrite 99
Muskego Twp. deposits 99
Muskrat Dam Lake East deposit
NTS 53G/5NE 223
Nakhodas Mining Co.
see Bowman Mine
Nama deposit
Kilkenny Twp. 179
Nameigos River deposit
Strickland Twp. 104
Nansen Twp.
Magnetite 117
Nansen Twp. deposit 117
Nat River deposit
Penhorwood Twp. 90-91
Naughton Quarry
Waters Twp. 31
Naveau Twp.
Magnetite 48
Naveau Twp. deposit 48
Navimar Lake deposit
NTS 52F/7NW 163
Neawagank Lake deposit
NTS 53A/5NW 214
Neebing Twp.
Barite 138
Calcite 140
Peat 143
Shale 143
Neepatrye Mine
Neebing Twp. 140
Neil deposit
Strathcona Twp. 9,10
Nelles Twp.
Peat 159
Nellie Lake Syndicate
Leonard Twp. 60,62
Nelson Quarry
Docker Twp. 170
Nemegosenda Lake prospect
Chewett Twp. 98
Nemeigusabins Lake deposit
NTS 53H/5NW 225
New Conex deposit
NTS 52O/7SW 200,206
New Insco deposit
NTS 42E/2SE 115
New Jersey Zinc Exploration Co. deposit
NTS 52O/11SW 199,207
Newkirk deposit
NTS 42E/5SW 113
Nib Yellowknife deposit
Penhorwood Twp. 91
Nickel Lake Mining
see Ainley deposit
Nickel Offsets
see Cromarty deposit
Nickel Rim Mine
MacLennan Twp. 20,24,28,37

Niemi deposit
NTS 42E/5SW 113
Night Hawk River deposit
Fallon Twp. 78,82
Nipigon River Quarry
Nipigon Twp. 144
Nipigon Twp.
Barite 138-139
Stone 144
Noranda Exploration deposit
Meath Twp. 103
NTS 52J/6SE 188
Senn Twp. 157
Noranda Mines
see Moosehorn Lake deposit
Norduna Mine
Falconbridge Twp. 20,24,29,33
Norland
see Conway deposit
Norman Twp.
Cobalt 22
Iridium 26
Selenium 31
Tellurium 38
North and South Aubry deposits
NTS 52I/8NW 182,184
North Bamaji Lake (Loon) (Cochenour Willans) deposit
NTS 52O/4NE 205
North Bamaji Lake West deposit
NTS 52O/4NE 199,206
Northern Light Lake - Southeast Bay deposit
NTS 52B/7SE 151
Northern Ontario China Clay Co. deposit
Kipling Twp. 121,122,123
Northern Peninsula deposit
NTS 52E/10NE 161
Northland Pyrites Mine
Best Twp. 10
North Range deposit
Wisner Twp. 22,30,38
North Range Mining
see Atikokan Mine
North Star Mine
Snider Twp. 19,24,28,33,36
North Trout Lake Southeast deposit
NTS 53C/13NE 219
Northwest Explorers deposit
NTS 52N/7SE 196,197
Nova Twp.
Graphite 96
Pyrite 101
Noyes Mine
McTavish Twp. 135
NTS 42D/10NE
Nepheline 108
NTS 42D/16NE
Asbestos 106
Clay 106-107
NTS 42D/16NW
Clay 106
NTS 42D/16SW
Magnetite 107,108
Titanium 109
NTS 42E/1NW
Niobium 115
NTS 42E/2SE
Niobium 115
NTS 42E/4NE
Amethyst 110
NTS 42E/4SE
Amethyst 110
NTS 42E/5NE
Beryllium 110
NTS 42E/5NW
Lithium 110,111,112
NTS 42E/5SW
Lithium 112,113,114
NTS 42E/6NW
Lithium 115
NTS 42E/9SE
Graphite 110
NTS 42G/07SE
Apatite 117
Phosphate 118
Vermiculite 118
NTS 42I/6NE
Magnetite 119
NTS 42I/15SE
Niobium 120
NTS 42J/06SW
Apatite 121
Magnetite 122
Phosphate 122
NTS 42L/3NW
Graphite 124
Pyrite 126
NTS 42L/4NE
Graphite 125
Marl 125-126
Pyrite 126
NTS 42L/4SE
Cobalt 124
Pyrite 126,127
NTS 42L/5SW
Asbestos 124
NTS 42L/6NE
Lithium 125
NTS 42L/10NW
Beryl 124
NTS 42M/3NW
Pyrite 128
NTS 43D/12NW
Pyrite 130
NTS 43K/7NE
Pyrite 131
NTS 43L/4NW
Pyrite 132
NTS 43L/7SW
Pyrite 132
NTS 52A/3NE
Barite 136
Calcite 139

NTS 52A/3SW
Barite 136,137
Calcite 139
Magnetite 142
NTS 52A/7SE
Arsenic 136
Calcite 140
NTS 52A/8NW
Agate 133
NTS 52A/9NE
Agate 133
Calcite 140
NTS 52A/9SW
Agate 133
NTS 52A/10NW
Selenium 143
NTS 52A/10SE
Stone 144
NTS 52A/10SW
Shale 144
NTS 52A/13NE
Beryl 139
NTS 52A/15SW
Pyrite 143
NTS 52B/5NE
Lithium 148
NTS 52B/5NW
Beryl 145
Garnet 147
Lithium 148
NTS 52B/5SW
Lithium 148
NTS 52B/7SE
Soapstone 151
Talc 151
NTS 52B/9NW
Talc 152
NTS 52B/9SW
Fluorspar 147
Talc 152
NTS 52B/13NE
Cobalt 146
Pyrite 150
NTS 52B/13NW
Beryl 145
NTS 52B/13SE
Pyrite 150
NTS 52B/14NW
Pyrite 151
NTS 52C/8NE
Lithium 154
NTS 52C/13NE
Bismuth 152
Magnetite 155
Pyrite 157
NTS 52C/10NE
Titanium 158
NTS 52C/15SE
Soapstone 157
Talc 158
NTS 52C/16SW
Clay 152
Graphite 154
Pyrite 157
NTS 52E/7NE
Soapstone 161
NTS 52E/7SE
Graphite 160-161
NTS 52E/7SW
Beryl 160
Feldspar 160
Mica 161
NTS 52E/10NE
Mariposite 161
NTS 52E/10SW
Asbestos 160
Soapstone 161
Talc 162
NTS 52F/2NE
Pyrite 167
NTS 52F/3SW
Pyrite 167
NTS 52F/4NE
Graphite 164,165
Pyrite 167,168
NTS 52F/4NW
Asbestos 163
Malachite 166
Pyrite 167
Talc 170
NTS 52F/5NW
Fluorite 164
NTS 52F/5SE
Magnetite 166
Malachite 167
Pyrite 168
NTS 52F/7NW
Bismuth 163
Hematite 166
NTS 52F/8NW
Fluorite 164
NTS 52F/10NW
Soapstone 169
Talc 170
NTS 52F/11NW
Soapstone 169
Stone 169
Talc 170
NTS 52G/3SE
Asbestos 172
Pyrite 173
NTS 52G/5SE
Pyrite 173-174
52G/5SE deposit 173-174
NTS 52G/9SW
Magnetite 173
Pyrite 174
NTS 52G/13NW
Pyrite 174
52G/13NW deposit 174
NTS 52G/14NE
Pyrite 174

52G/14NE deposit 174
NTS 52G/14SE
Pyrite 174
52G/14SE deposit 174
NTS 52G/14SW
Stone 175
NTS 52G/15NE
Garnet 172
Pyrite 174
52G/15NE deposit 174
NTS 52G/15NW
Fluorite 172
Muscovite 173
Pyrite 174
52G/15NW deposit 174
NTS 52G/15SW
Garnet 172
Pyrite 174
Tourmaline 175
NTS 52H/1NE
Beryl 176
Cesium 176
Lithium 178
NTS 52H/2SW
Lime 177
NTS 52H/3SE
Lime 178
Marble 180
NTS 52H/4SE
Beryl 176
Limonite 178
NTS 52H/5SW
Pyrite 180
NTS 52H/7NW
Magnetite 179,180
NTS 52H/7SE
Hematite 177
NTS 52H/8NE
Lithium 178,179
NTS 52H/8NW
Stone 180-181
NTS 52H/8SW
Lithium 179
NTS 52H/13NE
Chromium 176,177
Cobalt 177
Iridium 177
NTS 52H/14NW
Chromium 177
NTS 52I/6NE
Pyrite 184
52I/6NE deposit 184
NTS 52I/6NW
Pyrite 184
NTS 52I/6SE
Hematite 183
52I/6SE deposit 183
NTS 52I/7SW
Hematite 183
52I/7SW deposit 183
NTS 52I/8NE
Lithium 183,184
NTS 52I/8NW
Beryl 182
Lithium 183,184
NTS 52I/10SE
Pyrite 185
NTS 52I/10SW
Beryl 182
Pyrite 184,185
Tin 186
NTS 52I/11NW
Pyrite 185
NTS 52I/11SE
Pyrite 185
NTS 52I/11SW
Pyrite 185
52I/11SW deposit 185
NTS 52I/12NE
Pyrite 185
52I/12NE deposit 185
NTS 52I/12SE
Pyrite 186
52I/12SE deposit 186
NTS 52I/13NE
Pyrite 186
52I/13NE deposit 186
NTS 52I/13SE
Graphite 182
NTS 52I/14NW
Graphite 182
NTS 52J/1NW
Graphite 187
Pyrite 188,189
NTS 52J/4SW
Magnetite 188
NTS 52J/5NE
Pyrite 189
52J/5NE deposit 189
NTS 52J/6NW
Magnetite 188
Pyrite 189
52J/6NW deposit 189
NTS 52J/6SE
Graphite 187
Magnetite 188
Pyrite 189
NTS 52J/7NW
Magnetite 188
Pyrite 189
NTS 52J/8NW
Pyrite 189
NTS 52J/13NE
Lithium 187,188
NTS 52J/16NE
Beryl 187
Cesium 187
Lithium 188
NTS 52L/2SE
Pyrite 192

NTS 52L/7NW
Chromium 192
Cobalt 192
NTS 52L/7SE
Beryl 192
NTS 52L/8SW
Thorium 193
NTS 52K/1SE
Garnet 190
Magnetite 190
Pyrite 191
Silica 191
52K/1SE deposit 190,191
NTS 52K/1SW
Garnet 190
NTS 52K/11NW
Apatite 190
Beryl 190
Tourmaline 191
NTS 52K/15NW
Pyrite 191
NTS 52N/7SE
Cobalt 196
Magnetite 196
Pyrite 197
Tin 197
NTS 52N/7SW
Magnetite 196
Pyrite 197
NTS 52O/1NE
Pyrite 204
NTS 52O/1SE
Graphite 199
Magnetite 202
Pyrite 204
NTS 52O/1SW
Graphite 199
Pyrite 204
NTS 52O/2NW
Graphite 199-200
Pyrite 204
NTS 52O/3NE
Graphite 200
Magnetite 202
Pyrite 204,205
52O/3NE deposit 200,205
NTS 52O/3NW
Magnetite 202
Pyrite 204
NTS 52O/3SE
Graphite 200
Pyrite 205
NTS 52O/3SW
Magnetite 202
Pyrite 205
Thorium 208
52O/3SW deposit 202,205
NTS 52O/4NE
Fluorite 199
Pyrite 205,206
NTS 52O/4NW
Pyrite 205
NTS 52O/5NE
Magnetite 202
Pyrite 206
NTS 52O/5NW
Pyrite 206
NTS 52O/6NW
Magnetite 202-203
Pyrite 206
NTS 52O/6SE
Magnetite 203
Pyrite 206
NTS 52O/6SW
Magnetite 203
Pyrite 206
52O/6SW deposit 203,206
NTS 52O/7NE
Magnetite 203
NTS 52O/7SE
Graphite 201
Pyrite 206
NTS 52O/7SW
Graphite 200
Pyrite 206
NTS 52O/8NE
Graphite 201
Pyrite 207
NTS 52O/8NW
Graphite 201
Hematite 202
Magnetite 203
Pyrite 206,207
NTS 52O/8SE
Magnetite 203
Pyrite 207
NTS 52O/9SE
Pyrite 207
NTS 52O/11SE
Magnetite 204
Pyrite 208
NTS 52O/11SW
Cobalt 199
Graphite 201
Magnetite 203
Pyrite 207,208
NTS 52O/12NE
Graphite 201-202
Pyrite 208
NTS 52O/12SE
Goethite 199
Magnetite 204
Pyrite 208
NTS 52P/2NW
Cobalt 209
NTS 52P/3NE
Hematite 209-210
Magnetite 211
NTS 52P/3SE
Magnetite 211
NTS 52P/3SW
Hematite 210
Magnetite 211

NTS 52P/4NE
Graphite 209
Hematite 210
Magnetite 211
Pyrite 211
NTS 52P/4SE
Magnetite 211
NTS 52P/4SW
Graphite 209
Pyrite 212
NTS 52P/7SE
Pyrite 212
NTS 52P/8SW
Pyrite 212
NTS 52P/9NE
Hematite 210
Lithium 210
Pyrite 212
Tantalum 213
NTS 52P/9NW
Lithium 210
Pyrite 212
Tantalum 213
NTS 52P/9SE
Pyrite 212
NTS 52P/9SW
Pyrite 212
NTS 52P/11SE
Magnetite 211
Pyrite 212
NTS 52P/11SW
Magnetite 211
Pyrite 212
NTS 52P/12SW
Graphite 209
Magnetite 211
Pyrite 213
NTS 53A/5NW
Pyrite 214
NTS 53A/9NW
Graphite 214
Pyrite 214,215
NTS 53A/9SE
Pyrite 215
NTS 53A/10NE
Pyrite 215
NTS 53A/10SE
Pyrite 215
NTS 53A/10SW
Pyrite 215
NTS 53A/12SE
Apatite 214
Magnetite 214
Niobium 214
Pyrochlore 216
Vermiculite 216
NTS 53A/13NW
Apatite 214
Niobium 214
Pyrochlore 216
NTS 53A/15SW
Pyrite 216
NTS 53B/2NW
Pyrite 217
NTS 53B/5NE
Pyrite 217
NTS 53B/8NE
Graphite 217
Pyrite 217
NTS 53B/9NW
Graphite 217
Pyrite 218
NTS 53B/9SE
Pyrite 218
NTS 53B/9SW
Asbestos 217
NTS 53B/12SE
Pyrite 218
NTS 53B/14NE
Pyrite 218
53B/14NE deposit 218
NTS 53B/14SE
Asbestos 217
NTS 53C/10SW
Chromium 219
NTS 53C/12NE
Bismuth 219
Lithium 219
NTS 53C/13NE
Pyrite 219
NTS 53C/13SE
Asbestos 219
Lithium 219
NTS 53C/13SW
Thorium 220
NTS 53E/1SW
Pyrite 221
NTS 53F/3SE
Pyrite 222
NTS 53F/14NE
Pyrite 222
NTS 53G/5NE
Graphite 223
NTS 53G/5NW
Graphite 223
NTS 53G/5SW
Graphite 223
Pyrite 223
NTS 53G/6NE
Graphite 223
NTS 53G/15NE
Pyrite 223
NTS 53H/5NW
Graphite 225
Pyrite 225
NTS 53H/12NW
Pyrite 225
NTS 53H/12SW
Graphite 225
Pyrite 225
53H/12SW deposit 225

NTS 53H/13SW
Pyrite ... 226
Titanium ... 226
NTS 53J/1SW
Pyrite ... 227
NTS 53J/3NE
Pyrite ... 227
NTS 53J/10NW
Pyrite ... 227
NTS 53J/13SW
Cerium ... 227
Lanthanum ... 227
Niobium ... 227
Vermiculite ... 227
NTS 53K/2SW
Pyrite ... 228
NTS 53K/7NE
Pyrite ... 228
NTS 53K/7SE
Pyrite ... 228
NTS 53K/16SE
Cerium ... 228
Lanthanum ... 228
Niobium ... 228
Vermiculite ... 228
Oba River deposit
Irving Twp. ... 103-104
Oboshkegan Lake
see Henrickson Lake deposit
Oboshkegan Twp.
Graphite ... 125
Pyrite ... 126
Oboshkegan Twp. deposit 1 ... 125,126
Oboshkegan Twp. deposit 2 ... 126
O'Connor Twp.
Barite ... 138
Oke Twp.
Graphite ... 97
Pyrite ... 101
Oke Twp. (West-Central) deposit ... 97,101
Ole Hagen deposit
Benoit Twp. ... 69
O'Meara Twp.
Niobium ... 115
Onaping Mine
Levack Twp. ... 21,25,30,34
O'Neill Twp.
Clay ... 107
Ontario Gem Co. Mine
McTavish Twp. ... 135,138
Ontario Lithium Co. Ltd.
Southwest deposits
NTS 42E/5SW ... 114
Osnaburgh Lake deposit
NTS 52O/1NE ... 204
O'Sullivan Lake deposit
NTS 42L/6NE ... 125
Otter Twp.
Bismuth ... 40,41
Cobalt ... 41
Hematite ... 42
Otter Twp. occurrence ... 42
Otto Twp.
Graphite ... 74-75
Hematite ... 78
Nepheline ... 81
Otto Twp. (North) deposits ... 81
Paipoonge Twp.
Clay ... 141
Peat ... 142
Palomar Lake
see Kukatush deposit
Panache Lake Quartz Mine
Goschen & Truman Twp.
Silica ... 31
Paramaque deposit
Watten Twp. ... 156
Pardee Twp.
Chromite ... 140-141
Parole Lake deposit
see Pomace Lake deposit
Parting Lake deposits
Semple Twp. ... 58,61,63,64
Pashkokogan Lake deposit
NTS 52O/1SE ... 199,202,204
Pattison (R403-212X) deposit
McCaul Twp. ... 149
Pattullo Twp.
Peat ... 159
Pays Plat Bay deposit
Yesno Twp. ... 107
P.C.E. Exploration deposit
Prosser Twp. ... 74
Peat Moss deposit No.18
Conacher Twp. ... 149
Peat Moss deposit No.21
Fallis & Gibbard Twp. ... 149
Peat Moss deposit No.22
Gibbard Twp. ... 149
Peat Moss deposit No.23
Gibbard Twp. ... 149-150
Peat's Point deposit
Steele Twp. ... 13-14
Penhorwood Twp.
Asbestos ... 90,91,92
Barite ... 92
Graphite ... 94,95
Pyrite ... 99
Silica ... 101
Talc ... 101
Penhorwood Twp. deposit 1 ... 92
Penhorwood Twp. deposit 2 ... 94-95
Penhorwood Twp. deposit 3 ... 95
Peninsula Quarry
Pic Twp. ... 108
Penrose prospect
Strathy Twp. ... 9
Peterlong Lake deposit
Beemer Twp. ... 78
Phelps deposit
Zavitz Twp. ... 75,82

Phelps Dodge deposit
NTS 42L/4NE 125,126
NTS 52H/5SW 180
Pickle Crow Explorations deposit
NTS 52O/9SE 207
Pic River deposit
Pic Twp. 106
O'Neill Twp. 107
Pic River (North) deposit
NTS 42D/16NW 106
Pic Twp.
Clay 106
Stone 108
Pidgeon deposit
Echo Twp. 163-164
Pierce Lake deposit
NTS 53K/2SW 228
Pine Bay deposit
Crooks Twp. 141
Pinewood Peat Bog
Carpenter Twp. 155
Pitt Twp.
Lime 119
Plummer Additional Twp.
Trap rock 44
Pluton/Uranium Mines deposit
NTS 42E/5NE 110
Point deposit
NTS 42E/5SW 114
Polar Bear Bog
Nelles and Pattullo Twp. 159
Pomace Lake (No.1) & Parole Lake deposits
NTS 42E/5NW 111-112
Ponsford Twp.
Graphite 201
Pyrite 207
Pontiac Twp.
Pyrite 15
Pontiac Twp. deposit 15
Port Munro deposit
McCoy Twp. 106,108,109
Potts Twp.
Magnetite 155
Pyrite 157
Pountney Lake deposit
Sothman Twp. 58
Powell Twp.
Asbestos 59
Powell Twp. (central) deposit 59
Powell Twp. (east-central) deposit 59
Powerline deposit
NTS 42E/5NW 112
Premier Langmuir Mine
Langmuir Twp. 73
Prince Location
Amethyst 133
Calcite 139
Prince Location deposit 1 133
Prince Location deposit 2 139
Prosser Twp.
Fluorite 74
Pyrite 84
Prosser Twp. deposit 84
Pudden deposit
Maisonville Twp. 74,79
Puddy Lake prospect
NTS 52H/13NE 177
Quartz
Cassels Twp. 11
Kitchener Twp. 26
Quebec Asbestos Corp. deposit
Calvert Twp. 72
Quebec Cartier
see Strawhat Lake deposit
Quinn (138X-139X) deposit
McCaul Twp. 149
Rahn Lake Mines deposits
Bannockburn Twp. 59
Rainy River deposit
Curran Twp. 159
Ravena
see Cryderman deposit
Reaume Twp.
Chromite 74
Pyrite 86
Reaume Twp. deposit 86
Redditt deposit
Redditt Twp. 162
Redditt Twp.
Stone 162
Redore deposit
Wigle Twp. 64
Red Paint Lake deposit
Kowkash Twp. 125
Redstone River group
see Luke Lake group
Reef Point deposit
Watten Twp. 154,156
Reeves Mine
East, West and "75" zones
Reeves Twp. 91
Reeves Twp.
Asbestos 91
Graphite 94
Pyrite 99
Reeves Twp. (Southwest) deposit 94,99
Reid Twp.
Pyrite 83,86
Reid Twp. deposit 1 83
Reid Twp. deposit 2 86
Renner deposit
Jackson Twp. 41
Rennie Twp.
Asbestos 92
Pyrite 99,100
Reserve Lake deposit
NTS 42M/12SE 128
Rexdale deposit
NTS 52P/9NE 210,212

Rhodes Twp.
Magnetite 26
Rice Twp.
Stone 162
Riverdale Road Quarry
Neebing Twp. 143
Roadside Quarry
NTS 52A/10SE 144
Robb Twp.
Tourmaline 88-89
Roberta Twp.
Pyrite 116
Rocky Islet Bay (Stratmat) deposit
Watten Twp. 155,156
Roebuck Twp.
Gypsum 129
Roford deposit
Steele Twp. 17
Rollo Twp.
Graphite 53-54
Ronal deposit
Morrisette Twp. 14
Rothsay deposit
Gould Twp. 42
Rove Lake deposit
NTS 52I/11SE 185
Rowan Lake deposit
NTS 52F/5SE 166,167,168
Rupert Twp.
Marl 126
Rush Bay Quarries
Forgie Twp. 161-162
Rush Lake deposit
Genoa Twp. 50
Ryan (Seine Bay) deposit
Halkirk Twp. 154,158
Ryan Twp.
Kaolinite 46
Sachigo River deposit
NTS 53J/10NW 227
Saddle Creek deposit
NTS 52O/12NE 208
Saddle Creek - Lang Lake deposit
NTS 52O/12SE 204,208
Saga Lake deposit
NTS 42L/10NW 124
Salo deposit
NTS 42E/5SW 114
San Antonio deposit
NTS 52I/10SW 182
Sandborn Bay deposit
NTS 53F/3SE 222
Sanderson deposit
McTavish Twp. 142
Sand River deposit
Lizar Twp. 105
Sandy Creek deposit
NTS 52K/11NW 190,191
Sandy Mack Lake deposit
NTS 53F/14NE 222
Sandy Mack Lake Southeast deposit
NTS 53F/14NE 222
Sapwell Lake deposit
NTS 52P/3SE 211
Sault Algoma deposit Nos.1 & 4
Ryan Twp. 46
Sawyer Bay Shale
Sibley Twp. 143
Scheider deposit
NTS 52B/13NE 150
Schist Lake deposit
NTS 52J/6SE 187,189
Schryburt Lake Complex
NTS 53A/12SE 214,216
Schwenger Twp.
Pyrite 151
Scott claim
see Eby claim
Scriptures Vein
Lismore Twp. 137-138
Seeber Lake deposit
NTS 53F/14NE 222
Seeber Lake North deposit
NTS 53F/14NE 222
Seine Bay (Central Zone) deposit
Halkirk and Farrington Twp. 154,158
Seine River deposit
NTS 52C/15SE 157,158
Selco deposit
Black Twp. 75-76
NTS 52F/4NE 165,168
Selco Exploration deposit
NTS 52O/1SW 199,204
Semia Lake deposit
NTS 52O/11SW 208
Semple Twp.
Asbestos 58
Calcite 61
Pyrite 63
Talc 64
Semple Twp. deposit 1 63
Semple Twp. deposit 2 63
Senn Twp.
Pyrite 157
Setting Net Lake (Mattiess Lake) deposit
NTS 53C/12NE 219
Sewell Twp.
Arsenic 90
Pyrite 82
Sewell Twp. deposit 82
Seymour Lake deposit
NTS 52I/8NW 184
Shabu Lake deposit
NTS 52N/7SW 196,197
Shabuskwia Lake deposit
NTS 52P/2NW 209
Shallow River deposit
Beatty Twp. 87,88
Coulson Twp. 76

Shaw Twp.
Asbestos ... 66-67
Magnesite ... 79
Talc ... 87
Shebandowan Mine
Hagey Twp. ... 146,150
Shedden Twp.
Trap rock ... 44
Shepard property
Blezard Twp. ... 2025,29,34,37
Shoal Lake deposit
NTS 52E/10SW ... 160
Sibley Twp.
Calcite ... 140
Cobaltite ... 141
Shale ... 143
Stone ... 144
Silverclaim Lake deposit
Mickle Twp. ... 61-62
Silver Islet deposit
Sibley Twp. ... 141
Simpson - Carney Twp. deposits ... 104
Simpson Twp.
Magnetite ... 104
Sims Station deposit
Watten Twp. ... 155,157
Skead Twp.
Asbestos ... 9
Skead Twp. deposit ... 9
Skinner Twp.
Magnetite ... 196
Pyrite ... 197
Smith prospect
Rhodes Twp. ... 26
Smoky Falls Refractory Co. deposit
Kipling Twp. ... 121,122,123
Smye Twp.
Tourmaline ... 189
Smye Twp. deposit ... 189
Snider Twp.
Cobalt ... 19,20
Iridium ... 23,24
Selenium ... 27,28
Tellurium ... 36,37
Snider Twp. deposit
Snider Twp. ... 20,2832,33,36-37
Sootheran - Paul prospect
see Aldra
Sothman Twp.
Asbestos ... 58
South Bay Mine (Selco Mining Corp.)
Dent Twp. ... 197
South Hanrahan - Crawford Lakes deposits
Kenogaming Twp. ... 91
South Lorrain Twp.
Calcite ... 9
Cobalt ... 10
Erythrite ... 10
Pyrite ... 10
South McKellar Island deposit
NTS 52A/3NE ... 136,139
Southorn Lake deposit
NTS 53G/15NE ... 223
South Trout Lake deposit
NTS 53C/13SE ... 219
Soweska deposit
Habel Twp. ... 121,122,123
Spar Island deposit 1
NTS 52A/3SW ... 136-137,139
Spar Island deposit 2
NTS 52A/3SW ... 137,139
Sparton Mine
Deloro Twp. ... 67
Speight Twp.
Calcite ... 61
Cobalt ... 62
Spiers deposit
Ball Twp. ... 194
Stairs group
see Canadian Johns-Manville deposit
Standard deposit
NTS 42E/6NW ... 115
Stedman Twp.
Peat ... 173
Stedman Twp. Bog ... 173
Steele Twp.
Asbestos ... 13-14
Chromite ... 13,14
Lithium ... 16
Magnetite ... 15
Pyrite ... 17
Steele Twp. deposit ... 14,15
Steep Rock deposit
Freeborn Twp. ... 145,147,148,151
Steetley Industries Ltd.
Penhorwood Mine
Penhorwood Twp. ... 101
Stillar Bay deposit
NTS 52J/8NW ... 189
Stimson Twp.
Pyrite ... 87
Stimson Twp. deposit ... 87
Stobie Mine
Blezard Twp. ... 20,25,29,34,37
Stoughton Twp.
Pyrite ... 15
Stoughton Twp. deposit ... 15
Strathcona Mine
Levack Twp. ... 18,21,25,30,34
Strathcona Twp.
Cerium ... 9
Lanthanum ... 10
Strathy Twp.
Arsenic ... 9
Strawhat Lake (Quebec Cartier) deposit
Schwenger Twp. ... 151
Strickland Twp.
Beryl ... 104
Stringer Creek deposit
NTS 42I/6NE ... 119
Stull Lake deposit 1
NTS 53K/7NE ... 228

Stull Lake deposit 2
NTS 53K/7NE 228
Stull Lake deposit 3
NTS 53K/7SE 228
Sturdy Mines
see Misehkow River deposit
Sturgeon Escarpment deposit
NTS 52H/7SE 177
Sturgex (Beckington Lake) deposit
NTS 52J/1NW 187,188
Sturgex (Fog Lake) deposit
NTS 52J/1NW 187,189
Sultana deposit
Trill Twp. 18,26,35
Suni Twp.
Marl 125
Sunisloe deposit
Cairo Twp. 63
Superior Brick and Tile
see Thunderbrick deposit
Sutton Narrows deposit
NTS 43K/7NE 131
Swain Lake deposit
NTS 52N/7SE 196,197
Swanson deposit
NTS 52H/1NE 176
Swayze Twp.
Graphite 54
Sweet Twp.
Magnetite 117
Sweet Twp. deposit 117
Tackle Lake deposit
NTS 52H/4SE 176
Talisman deposit
Halliday Twp. 58
Tarp Lake deposit
NTS 52O/9SE 207
Tashota deposit
NTS 42L/4NE 125-126
Tasse Lake deposit
Chambers Twp. 10
Teck (Mattiess Lake) deposit
NTS 53C/12NE 219
Teck Twp.
Magnetite 80
Territory deposit
NTS 52H/7NW 179
Texmont deposit
NTS 52G/15NW 172,174
Texmont - Sturdy deposit
NTS 52G/15NW 173
Thompson Island deposit
NTS 52A/3NE 136,139
Thorburn Twp.
Magnetite 80
Thorburn Twp. deposit 80
Thornloe Twp.
Marl 81
Thorsteinson deposit
NTS 42E/4SE 110
Three Duck Lakes deposit
Chester Twp. 60
Thunder Bay Amethyst Mine
McTavish Twp. 135
Thunderbrick (Superior Brick and Tile) deposit
Paipoonge Twp. 141
Tisdale Twp.
Asbestos 72
Tolmonen Twp.
Magnetite 48
Tooms Twp.
Graphite 51
Magnetite 55
Toronto Lake deposit
NTS 42L/5SW 124
Totten Mine
Drury Twp. 18,23,27,32,35
Trail Lake deposit
Moody Twp. 73
Trans deposit
NTS 42E/5NW 112
Trap Lake deposit
NTS 52F/10NW 170
Trasher deposit
NTS 52F/5NW 164
Travel Lake deposit
Garnet Twp. 52-53,56
Treelined Lake deposit
NTS 52L/8SW 193
Trill Twp.
Cobalt 18
Selenium 26,27
Tellurium 35
Trillabelle deposit
Trill Twp. 18,27,35
Trim Lake deposit
Tolmonen Twp. 48
Truman Twp.
Silica 31
Tug Channel deposit
NTS 52E/7SE 160-161
Tully Twp.
Graphite 76,77
Pyrite 84,86
Talc 88
Tully Twp. deposit 86
Tully Twp. (North) deposit 77,86
Turtle Lake deposit
NTS 52B/13NW 145
Tustin Twp.
Beryl 163
Tantalite 170
Tourmaline 171
Twin Cities Bog
Paipoonge Twp. 142
Twin Falls deposit
NTS 52B/5SW 148
Twin Lakes deposit
Thornloe Twp. 81

Tyrrell Twp.
Graphite ... 62
Pyrite ... 63
Tyrrell Twp. deposit ... 63
Tyrrell Twp. (N.W.) deposit ... 62
Tyson Deposit
Dorothea Twp. ... 180
Umex (Coucheemoskog Lake) deposit
NTS 52O/8SE ... 203,207
Umex (First Loon Lake) deposit
NTS 52P/12SW ... 211,213
Umex (Kapkichi Lake Central) deposit
NTS 52O/8NW ... 203,206
Umex (Kapkichi Lake East) deposit
NTS 52O/8NW ... 203
Umex (Kapkichi Lake North) deposit 1
NTS 52O/8NW ... 201,206
Umex (Kapkichi Lake North) deposit 2
NTS 52O/8NW ... 202,203
Umex (Kawinogans Lake) deposit
NTS 52O/7SW ... 200,206
Umex (Meen-Dorothy Lakes) deposit
NTS 52O/6NW ... 202-203,206
Umex (Munch Lake) deposit
NTS 52O/7NE ... 203
United Asbestos Mine
Midlothian Twp. ... 58
United Macfie deposit
South Lorrain Twp. ... 9,10
Universal Granite (Vermilion Bay) Quarry
Docker Twp. ... 170
Upper Canada deposit
Reaume Twp. ... 74
Upper Shebandowan Lake deposit
NTS 52B/9NW ... 152
Upper Windigo Lake deposit
NTS 53B/12SE ... 218
Upper Windigo Lake (Central) deposit
NTS 53B/5NE ... 217
Valentine Twp.
Niobium ... 119-120
Valentine Twp. deposit ... 119-120
Van Hise Twp.
Bismuth ... 60
Cobalt ... 62
Van Horne Twp.
Pyrite ... 168
Van Horne Twp. deposit ... 168
Vankoughnet Twp.
Hematite ... 45
Silica ... 47
Varve Clay Lake deposit
NTS 53E/1SW ... 221
Vegan deposits
NTS 42E/5SW
No.1 and 2 Zones ... 114
Ventures Claim
Carman Twp. ... 67
Venturi Twp.
Vermiculite ... 39
Vermilion Additional Twp.
Magnetite ... 190
Pyrite ... 191
Vermilion Lake deposit
Vermilion Twp. ... 168
Vermilion - Lomond deposit
Vermilion Additional & Lomond Twp. ... 190,191
Vermilion Mine
Denison Twp. ... 18,23,27,35
Vermilion Twp.
Pyrite ... 168
Vibert Twp.
Magnetite ... 48
Pyrite ... 49
Victoria Island deposit 1
NTS 52A/3SW ... 137,139
Victoria Island deposit 2
NTS 52A/3SW ... 142
Victoria Mine
Denison Twp. ... 18,23,27,32,35
Victor Mine
MacLennan Twp. ... 20,24,28,37
Villeneuve deposit
Lowther Twp. ... 117
Wabigoon (Pidgeon) deposit
Zealand Twp. ... 169,170
Wabigoon Twp.
Graphite ... 165
Wager (Maligne River) deposit
NTS 52B/5NW ... 148
Wahl deposit
NTS 52G/15NW ... 172
Wakami River Deposit
Greenlaw Twp. ... 55-56
Wakomata Lake deposit
Otter & Casson Twp. ... 42
Walsh Twp.
Magnetite ... 107
Warden Twp.
Asbestos ... 69,70
Wart Lake deposit 1
Vibert Twp. ... 48
Wart Lake deposit 2
Vibert Twp. ... 48,49
Watcomb Quarry
NTS 52G/14SW ... 175
Waters Twp.
Silica ... 31
Watson Twp.
Graphite ... 97
Pyrite ... 100,101
Watson Twp. deposit 1 ... 100
Watson Twp. deposit 2 ... 101
Watten Twp.
Graphite ... 154
Magnetite ... 155
Pyrite ... 156,157
Stone ... 157-158
Wawong Lake deposit
Rupert Twp. ... 126

Webb Twp.
Cesium ... 164
Lithium ... 166
Webster deposit
NTS 52K/1SW ... 190
Weiss Cooper (East Brudon) deposit
Watten Twp. ... 157
Werner Lake Mine
NTS 52L/7NW ... 192
Werner Lake Prospect
NTS 52L/7NW ... 192
Wesson deposit
Rennie Twp. ... 99
West deposit
Hagey Twp. ... 150
Westfield deposit
Meath Twp. ... 103
NTS 52A/3SW ... 137,139
West Shore deposit
NTS 52H/7SW ... 180
Whistle Mine
Norman Twp. ... 22,26,31,38
Whitefish Indian Reserve No.4
Stone ... 31-32
White Quarry
Rice Twp. ... 162
White River Lead deposit
Albanel Twp. ... 40,41
Whitesides Twp.
Pyrite ... 82
Whitesides Twp. deposit ... 82
Wigle Twp.
Tin ... 64
Wilhelmina Twp.
Pyrite ... 85
Wilhelmina Twp. deposit ... 85
William Bog
Neebing & McIntyre Twp. ... 143
Williams Island deposit
Hobson Twp. ... 119
Williamson deposit
McTavish Twp. ... 135
Winisk River deposit 1
NTS 43L/4NW ... 132
Winisk River deposit 2
NTS 43L/7SW ... 132
Winnie Lake deposit
Teck Twp. ... 80
Wisa Lake deposit
NTS 52C/8NE ... 154
Wisner Twp.
Cobalt ... 22
Selenium ... 30,31
Tellurium ... 38
Witch Bay deposit
Manross Twp. ... 162
Witegon River deposit
NTS 53J/1SW ... 227
Worthington (Crean) Mine
Denison Twp. ... 19,23,27,32,35-36
Yarrow Twp.
Barite ... 60
Yeo Twp.
Graphite ... 51
Yesno Twp.
Amethyst ... 106
Barite ... 106
Fluorite ... 107
Young deposit 1
NTS 52C/16SW ... 154,157
Young deposit 2
Potts Twp. ... 155, 157
Zavitz Creek deposit
Zavitz Twp. ... 79
Zavitz Twp.
Asbestos ... 66
Graphite ... 75
Hematite ... 79
Pyrite ... 82
Zealand Twp.
Beryl ... 163
Soapstone ... 169
Talc ... 170
Tourmaline ... 171
Zealand Twp. deposit 1 ... 163,171
Zealand Twp. deposit 2 ... 169
Zigzag Lake (Dempster) deposit
NTS 52I/8NW ... 183
Zionz Lake deposit
NTS 52O/5NW ... 206